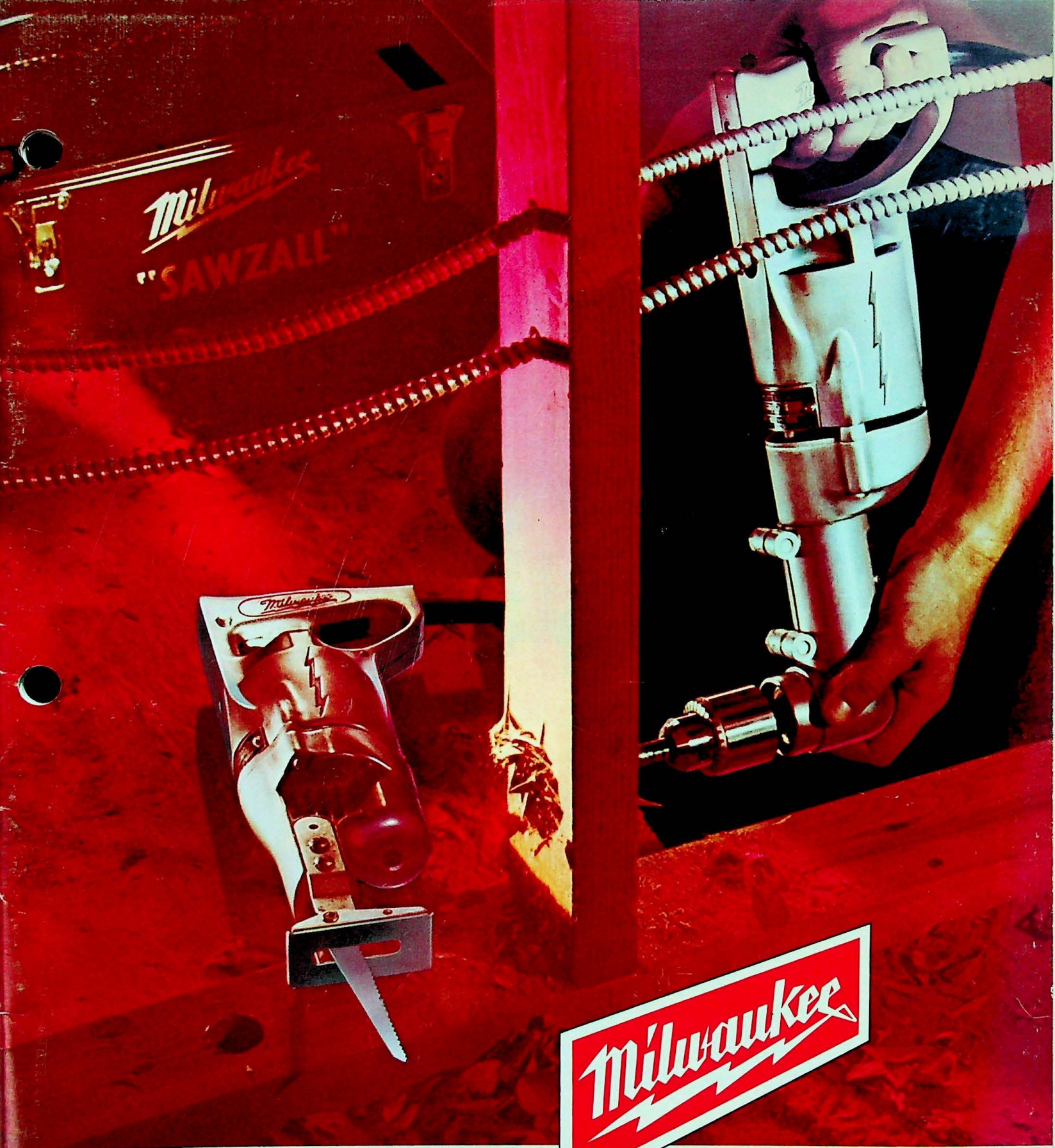




TERRY INC.
10110 SUMMIT AVENUE
KENSINGTON, MD. 20795
301 - 942-3000

Milwaukee

HEAVY-DUTY TOOLS
for Contractors and Industry

catalog 170

ADVANCED ENGINEERING

MILWAUKEE engineers are continuously engaged in the design and redesign of new and proven power tools to provide easier operation, longer tool life and improved performance. Newly developed materials and mechanisms are extensively tested and only those which meet MILWAUKEE'S heavy-duty standards are employed to bring you the highest quality professional power tools on the market.

MILWAUKEE BUILT MOTORS

MILWAUKEE motors are the finest power tool motors available today. Built in our own plant from the highest quality raw materials, they are the result of over 40 years of design research and innovation. Every field coil used in a MILWAUKEE motor is insulated in a special process to provide greater rigidity, additional protection against shorting and better insulation. Armatures with high temperature windings are impregnated with a high heat resistant resin which solidly fills the tightest and deepest windings to protect against moisture, abrasive dust and grounding. Lead wires, individually welded to commutator bars, withstand high temperatures without motor damage and rotor assemblies are dynamically balanced to assure vibration free operation and high efficiency.

MACHINED PARTS

All mechanical parts are carefully processed from selected high quality materials to meet MILWAUKEE'S strict quality standards. Precision heat-treated alloy gears, shafts and spindles in conjunction with sturdy aluminum castings provide smooth, quiet and reliable power transmission for longer service life.

QUALITY CONTROL

In addition to continuous quality checks throughout manufacture and assembly, all electrical, mechanical and physical features are thoroughly rechecked in operation before packaging.

TESTED-LISTED

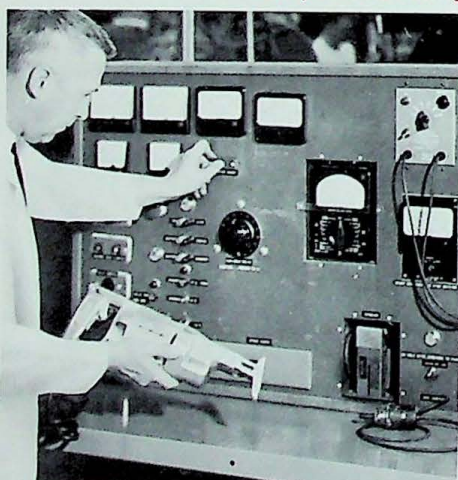
MILWAUKEE Heavy-Duty Tools bearing monograms of Underwriters Laboratories, Inc., or Canadian Standards Association are listed by their laboratories for industrial use.



Dynamic Balancing



Complete Final Testing



GUARANTEE

Every MILWAUKEE Tool is thoroughly inspected and tested before leaving the factory. It is guaranteed against defective workmanship and materials. Should any trouble develop, return the COMPLETE tool prepaid to the Factory, Branch or nearest Authorized MILWAUKEE Service Station. If inspection shows trouble is caused by defective workmanship or material, all repairs will be made without charge and returned transportation prepaid. The guarantee does not apply where: Repairs or attempted repairs have been made by persons other than Factory, Branch or Authorized Service Station personnel; repairs are due to normal wear; the tool has been abused or in an accident; misuse is evident — caused by overloading the tool beyond its rated capacity, use of the tool after partial failure or use with improper accessories. No other guarantee, written or verbal, is authorized.

HIGHEST QUALITY MATERIALS AND WORKMANSHIP

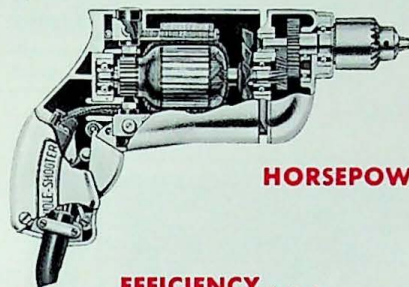


HEAVY-DUTY TOOLS

AUTHORIZED SALES

MILWAUKEE Electric Tools are sold only through Authorized Distributors with experienced personnel to assist you in selecting the proper tools for your specific requirements. You derive a real advantage in buying from your MILWAUKEE Distributor. He not only maintains well balanced inventories of tools for immediate shipment, but places at your disposal the services of his trained and experienced personnel to advise you on special product applications.

AMPS . . .



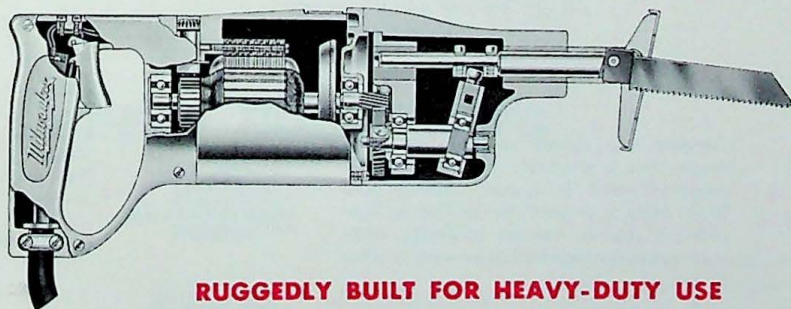
HORSEPOWER . . .

EFFICIENCY . . .

An Electric Tool is only as good as its motor. No matter what other desirable features any tool may have, the motor is the most vital part . . . the heart of the tool.

All motors draw more or less amperes depending upon the various loads applied. The motor converts electrical energy to mechanical energy. If the amount of loss is small in conversion, the motor's efficiency becomes greater, resulting in more output at the working end of the tool.

The ampere rating of the motor on the MILWAUKEE nameplate is based upon continuous heavy-duty operation to provide maximum efficiency at full rated load. MILWAUKEE motors are conservatively rated and are built to take 100% overloads. They have the reserve horsepower required for extra heavy-duty jobs.



RUGGEDLY BUILT FOR HEAVY-DUTY USE

GENERAL INFORMATION

Unless otherwise indicated, all tools have universal motors operating on direct or single-phase alternating current of 0 to 60 cycles of the specified voltage. Tools have 3-wire conductor cords with strain relievers securely clamped to prevent breaking or straining connections. Cords have unbreakable three prong rubber safety type plugs. The MILWAUKEE ELECTRIC TOOL CORPORATION reserves the right to make any changes in or improvements on its products without incurring any liability or obligation whatever and without being required to make any corresponding changes or improvements in products previously manufactured or sold.

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INSTRUCTIONS

An instruction booklet is furnished with each MILWAUKEE Electric Tool. Please read it carefully for best care and performance. **IMPORTANT** — Pay particular attention to all safety precautionary measures before operating any power tool.

4 HEAVY-DUTY HOLE-SHOOTERS

Ball and Roller Bearings



**1/4" HOLE-SHOOTER
PISTOL GRIP**

Best 1/4" heavy-duty drill value. Light-weight, compact. Lifetime lubricated ball bearings—single gear reduction. Especially designed for general maintenance. Comfortable, thermoplastic Lexan® pistol grip with extremely high impact strength stands up under the roughest use and is not affected by temperature extremes.



**1/4" HOLE-SHOOTER
TRIGGER SPEED CONTROL
WITH REVERSING SWITCH**

A Trigger Speed Control unit, with the same features as above, provides speeds from 0 to 2500 RPM. No center punching . . . no drill bit walking . . . drills almost everything including ceramics and glass. Reversing switch is located above trigger switch.



**1/4" to 3/8"
HOLE-SHOOTERS
IN-LINE GRIP**

Most powerful Drills of this type made for production drilling . . . deliver top horse power at maximum efficiency. Built for continuous use on the toughest jobs. All have double gearing for greater torque.



**1/4" and 3/8"
HOLE-SHOOTERS
PISTOL GRIP**

These Drills have the same power and performance features as the In-Line grip models above but with a durable LEXAN®, thermoplastic, pistol grip handle described for "A" above.



**1/4" and 3/8"
HOLE-SHOOTERS
TRIGGER SPEED CONTROL
WITH REVERSING SWITCH**

The Trigger Speed Control models give speeds of 0 to 2000 RPM on the 1/4" Drill and 0 to 1000 on the 3/8" model. Other specifications are similar to those for the Drills above. Reversing switch is located above trigger switch.

TRIGGER SPEED CONTROL REVERSING SWITCH

Milwaukee Trigger Speed Control-Reversing switches let you drill through wood, steel, masonry, ceramic tile and practically any other material at the exact speed required for the job. The further the trigger is depressed, the faster the tool operates. Reversing Lever is conveniently located above trigger for maximum drilling versatility. Mechanical interlock prevents accidental reversing while motor is running.



With Powerful, Milwaukee Built Motors For Continuous Industrial Use

MILWAUKEE heavy-duty pistol grip Hole-Shooters are available in a wide variety of capacities, speeds and designs to meet your specific drilling and handling requirements. Available with In-Line design handles or Lexan® pistol grips, they are all engineered to give dependable performance and long life, even under the most severe operating conditions. In addition to constant speed models, three models are also available to provide complete speed control from zero to the tool's maximum RPM. Only the highest quality materials are used in the manufacture of these drills. All have heat-treated nickel alloy steel gears and hardened shafts, heavy-duty MILWAUKEE-built motors, lockable trigger switches and Jacobs industrial, geared, key-type chucks with rubber-flex key holders.

SPECIFICATIONS

Group	Catalog No.	Cap. (In.) in Steel	Volts	Spindle Dia. and Thread	Speed rpm No Load	Gear Train	Lgth. (In.)	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
A	0101	1/4	115	3/8-24	2000	Sngl.	8 3/8	3 1/2	6
B	0102-1 •	1/4	115AC Only	± 1 J.T.*	0 To 2500	Sngl.	8 3/8	3 1/2	6
C	0120	1/4	115	3/8-24	2000	Dbl.	9 1/2	3 3/4	6
	0140	1/4			3500				
	0160 ★	1/4			5000				
	0180	1/4			2500				
	0190	1/4			1700				
	0200	3/8			1000		10		
	0220	3/8			650		10 1/4	4	7
D	0121	1/4	115	3/8-24	2000	Dbl.	8 3/4	3 3/4	6
	0181	1/4			2500				
	0191	1/4			1700				
	0221	3/8			650		9 1/2	4	7
E	0122-1 •	1/4	115AC Only	± 1 J.T.*	0 To 2000	Dbl.	8 3/4	3 3/4	6
	0222-1 •	3/8		± 2 J.T.*	0 To 1000		9 1/2	4	7

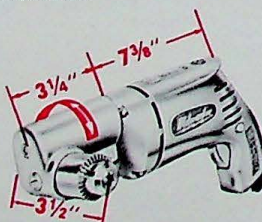
- ★ Recommended only for drilling skin aluminum and other non-ferrous metals.
- 50 to 60 Cycle only. Reversing Trigger Speed Control Drills.
- * Jacobs Taper Spindle.

RIGHT ANGLE DRIVE UNIT One to One Gear Ratio

Compact and closely coupled, the Right Angle Unit is available only for Drills in groups C and D except Catalog Nos. 0140, 0160. It is ideal for drilling in tight spots in cabinet making, carpentry, automotive, heating, ventilating and many other industries.



Catalog No. 2890
chuck not included
Net Wt. 1 lb.



Chuck, removed from Drill, is threaded on spindle of angle unit which couples to Drill. It can be locked in any position within 360°.

STEEL CARRYING CASE

For drills in group A through E above
Catalog No. 48-55-0705

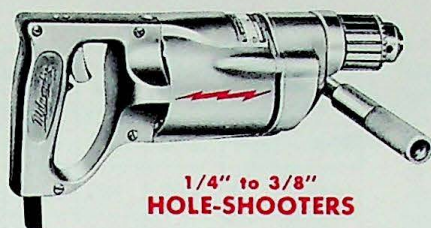


HEAVY-DUTY HOLE-SHOOTERS

Ball and Roller Bearings

5

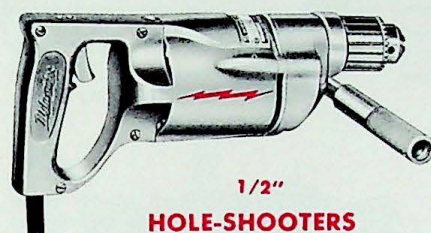
D-HANDLE DRILLS



**1/4" to 3/8"
HOLE-SHOOTERS**

F

Four powerful Drills designed for the toughest jobs...with speeds and capacities to meet almost any production requirement. All have double gear reduction.



**1/2"
HOLE-SHOOTERS**

G

Produce high torque and maximum power. The 560 rpm Drill has double gearing. The 450 and 320 rpm Drills have greater torque with triple gearing for boring large holes in wood.

1/4" • 5/16" • 3/8" • 1/2" Capacities Geared for Continuous Production Drilling

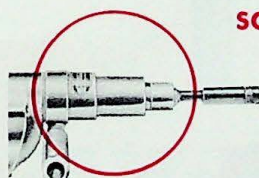
These D-Handle Drills with powerful MILWAUKEE motors are built for rugged performance and many years of useful service. They are known for their ability to stand up under full load at their maximum rating and for handling a wide variety of applications. Models with multiple gear reduction have greater torque output...gears transmit smooth, stall-proof power. The switch for models with reversible motors is conveniently located below the trigger switch. All have heat-treated, helical-cut alloy steel gears and hardened shafts, lockable trigger switch, Jacobs industrial, geared key-type chuck, rubber flex key holder, and a 360° adjustable side handle.

SPECIFICATIONS

Group	Catalog No.	Cap. (In.) in Steel	Volts	Spindle Dia. and Thread	Speed No Load (RPM)	Gear Train	Lgth. (ins.)	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
F	0800	1/4	115	1/2"-20	2000	Dbl.	11 3/8	5 1/2	9
	0850	5/16	115	1/2"-20	1400	Dbl.	12	5 1/2	9
	0870	3/8	115	1/2"-20	1000	Dbl.	12 1/4	6 1/4	10
	0890	3/8	115	1/2"-20	850	Dbl.	12 1/4	6 1/4	10
G	1000	1/2	115	1/2"-20	560	Dbl.	12 1/4	6 1/2	10
	1000-1 Rev.	1/2	115	1/2"-20	560	Dbl.	12 1/4	6 1/2	10
	1100	1/2	115	1/2"-20	450	Trpl.	12 1/4	6 3/4	10
	1100-1 Rev.	1/2	115	1/2"-20	450	Trpl.	12 1/4	6 3/4	10
	1200	1/2	115	1/2"-20	320	Trpl.	12 1/4	6 3/4	10
	1200-1 Rev.	1/2	115	1/2"-20	320	Trpl.	12 1/4	6 3/4	10

NOTE: Abbreviation "Rev." following Catalog No. indicates reversing motor.

SCREW DRIVER-NUT RUNNER UNIT WITH POSITIVE DRIVE CLUTCH



CATALOG NO. 2930

Replaces chuck. Converts models 1100, 1100-1, 1200 or 1200-1 MILWAUKEE Heavy-Duty Drills for screw driving or nut running. Wood screws Nos. 10 to 16 and bolts or nuts Nos. 10 to 3/8". Unit clamps securely to the forward collar of the drill housing, coupling with the hex spindle of the drill. Standard equipment includes 3 screw driver bits with finders 48-30-3250, 48-30-3275 and 48-30-3300 and one 1/2" square socket driver Catalog No. 48-32-2070. Net Wt. 1 1/2 lbs. Shp. Wt. 2 3/4 lbs.



See next page for
Right Angle Drive Unit
and Right Angle Drill Kits.

2-SPEED HOLE HAWG

WITH REVERSING MOTOR



3/4 HP

Only 10 1/2 lbs.

Ball and Roller Bearings

- Compact design for drilling between studs and joists.
- Power and torque to handle up to 4 5/8" Selffeed Bits.

The most advanced compact design for drilling between studs and joists with power and torque to handle up to 4 5/8" Selffeed bits in wood and 1/2" in steel. Only 6 3/8" from tip of chuck to back of gear case...13 1/2" high and 4 5/8" wide. Two-speed gear shift...1200 rpm for small holes and 300 rpm for large holes. Three position spade handle and two position pipe handle for good leverage in any position. A tough thermoplastic LEXAN® handle, with high impact strength, is unaffected by extreme temperatures.

SPECIFICATIONS

Catalog No.	Speed	No Load RPM	Capacity in		Spindle Dia. and Thread	Gear Train	Net Wgt. lbs.	Shp. Wgt. lbs.
			Wood	Steel				
1675-1 Rev.	High	1200	1 3/8"	5/16"	5/8"-16	Trpl.	10 1/2	16
	Low	300	4 5/8"	1 1/2"				
1676-1 Rev.	Same as above but with steel carrying case							24

STEEL CARRYING CASE CAT. NO. 48-55-0110 (When ordered separately)

RIGHT ANGLE DRIVE UNIT

Ball and Roller Bearings

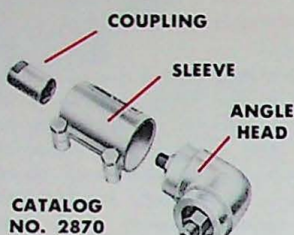
FOR CLOSE QUARTER DRILLING

Used with D-Handle Drills
Described on Preceding Page

The MILWAUKEE Right Angle Drive Unit is used extensively for drilling between joists, studding, in tight corners or in close quarters on machinery equipment. It provides two additional drilling speeds, higher and lower than the original speed of the drill giving it versatility for a number of applications . . . high speed for small hole drilling . . . low speed for large diameter wood boring where greater torque is required.

CHOICE OF THREE DRILLING SPEEDS

Fits Drills Catalog No.	RPM Drill Only	Drill with RAD Unit	
		RPM Low Side	RPM High Side
0800	2000	1300	3000
0850	1400	900	2100
0870	1000	650	1500
0890	850	570	1275
1000	560	375	840
1000-1 Rev.	450	300	675
1100	320	215	480
1100-1 Rev.			
1200			
1200-1 Rev.			



RIGHT ANGLE DRIVE UNIT

Catalog No. 2870 For Drills with non-reversing motors. Drill or chuck not included. Net wgt. 2 lbs. Shp. Wgt. 3 lbs.

REVERSING RIGHT ANGLE DRIVE

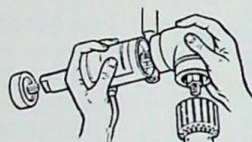
Catalog No. 2870-1 For Drills with reversing motors.

NOTE: Abbreviation "Rev." following Catalog No. indicates reversing motor.

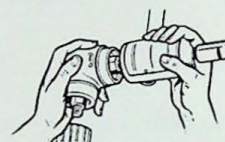


1/2" DRILL WITH RIGHT ANGLE DRIVE

Head and handle swivel 360° and can be locked tight in any position.



Chuck transferred from drill to LOW spindle of right angle unit reduces drills normal speed by 1/3 and increases drilling torque by 50%.



Chuck transferred to opposite spindle of right angle unit increases speed by 50% for small hole drilling.

RIGHT ANGLE DRILL KITS

FOR ELECTRICIANS • PLUMBERS • MAINTENANCE MEN



ELECTRICIAN'S KIT

CATALOG NO. 3000



PLUMBER'S KITS

CATALOG NOS. 3100 AND 3200

These MILWAUKEE Right Angle Drill Kits are extremely popular among tradesmen. They offer the convenience, durability and dependability so necessary for fast, efficient operation on the variety of applications confronting the contractor. The drills can be used for straight drilling or with the Right Angle Drive Unit as described above.

ELECTRICIAN'S KIT

CATALOG NO. 3000 Kit contains No. 1000 heavy-duty 1/2" Drill, No. 2870 Right Angle Drive, 3/4" bit, wrench, chuck remover bar, side handle and steel carrying case.

PLUMBER'S KIT

CATALOG NO. 3100 Kit contains No. 1100 heavy-duty 1/2" Drill, No. 2870 Right Angle Drive, 1 1/8" Auger bit, 2 1/2" Selffeed bit, wrench, side handle, chuck remover bar and steel carrying case.

CATALOG NO. 3200 Same as above except with No. 1200 heavy-duty 1/2" Drill with slower speed and greater torque.

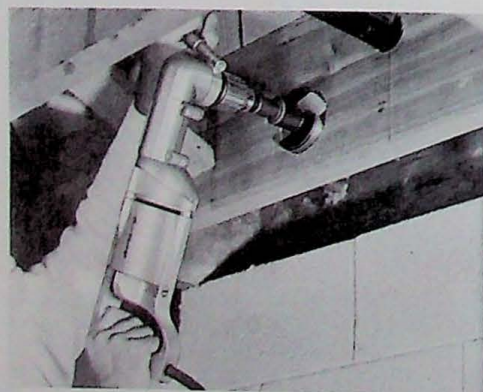
NOTE

See preceding page for specifications on 1/2" Hole Shooters included in these kits. Available speeds are given in the table above.

SPECIFICATIONS

Kit Catalog No.	With Drill	Shp. Wgt. lbs.
3000	1000	21
3000-1 Rev.	1000-1	21
3100	1100	25
3100-1 Rev.	1100-1	25
3200	1200	25
3200-1 Rev.	1200-1	25

Steel Carrying Case
(when ordered separately)
For D-Handle Right Angle Drills
Catalog No. 48-55-0080



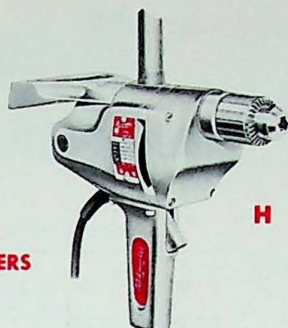
Drilling in tight spots is simple with MILWAUKEE Right Angle Drill. Selffeed bit produces clean, accurate holes for running pipe.

SUPER HOLE-SHOOTERS

Large Capacity Drills with Maximum Power for Continuous Performance

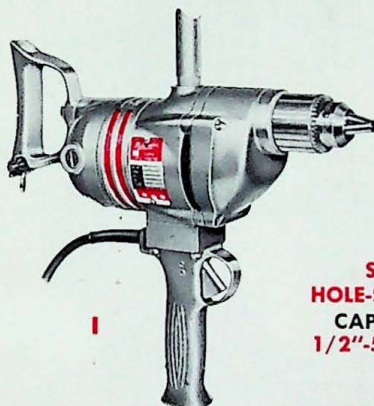
7

Ball and Roller Bearings



1/2" COMPACT HOLE-SHOOTERS

Compact, well balanced 1/2" production Drills deliver 3/4 horsepower at the chuck and are designed for constant use... ideal for hole saw drilling. Available in double or triple gear reduction. Pipe and spade handles removable for close quarter drilling. All ball bearings... Jacobs industrial key chucks... lockable trigger-switch.



SUPER HOLE-SHOOTERS CAPACITIES 1/2"-5/8"-3/4"

Perfectly balanced — mechanically and electrically. Built to handle a wide variety of drilling jobs. Smooth, powerful, double or triple reduction helical gearing. Spade and pipe handle removable. Furnished with heavy-duty industrial chuck.

Ruggedly built and of simple functional design, these Milwaukee Hole-Shooters have the reserve power for the toughest drilling jobs. Gear drives are special helical-cut, chrome-nickel steel, heat treated to assure quiet performance and high torque with minimum wear. Drive shafts run smoothly on self-lubricating ball and roller bearings.

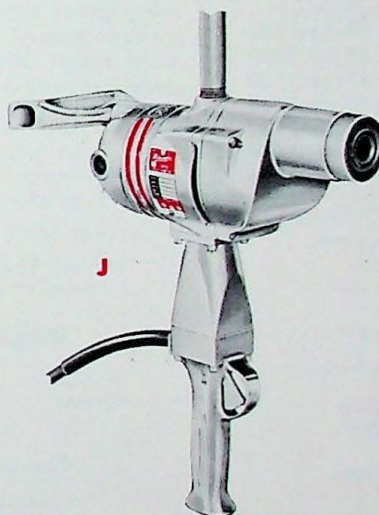
SPECIFICATIONS

Unless otherwise specified all drills have Jacobs Industrial, geared, key-type chucks.

Group	Catalog No.	Cap. (In.) in Steel	Volts	Spindle Dia. and Thread	Speed rpm No Load	Gear Train	Lgth. (In.)	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
H	1600 1600-1 Rev.	1/2	115 115	1/2"-20 5/8"-16	600	Dbl.	12 1/4	9 1/2	13
	1650 1650-1 Rev.	1/2	115 115	1/2"-20 5/8"-16	450	Trpl.	12 1/4	9 1/2	13
I	1700 1700-1 Rev.	1/2	115 115	5/8"-16 #6J.T.*	600	Dbl.	16	14 3/4	19 21
	1750 1750-1 Rev.	5/8	115 115	5/8"-16 #3J.T.*	525	Trpl.	16 1/2	15 3/4	20 22
	1850 1850-1 Rev.	3/4	115 115	5/8"-16 #3J.T.*	400	Trpl.	16 1/2	16 3/4	20 22
J	2400-1 Rev.	1 1/4	115	•	250	Trpl.	16 3/4	21 1/2	26

"Rev." after Catalog No. indicates reversing type motor. * Jacobs Taper Spindle.

• With No. 3 Internal Morse Taper Socket.



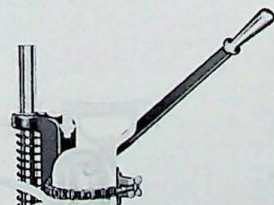
1-1/4" CAPACITY SUPER HOLE-SHOOTER

2-1/2 MAX. H.P.

MILWAUKEE'S largest and most powerful Drill. Extra long switch handle and pipe handle afford maximum leverage for drilling or reaming large holes. Triple reduction, helical gearing transmits tremendous torque. Furnished with No. 3 internal Morse Taper Socket.

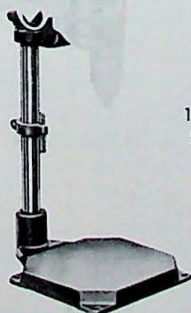
DRILL STANDS FOR MILWAUKEE HOLE-SHOOTERS

Your Milwaukee Electric Drill clamps quickly into a Milwaukee Drill Stand to make a powerful and accurate drill press. It provides the leverage for steady, smooth feed. Wide opening between chuck and base accommodates bulky work. An adjustable vertical feed travel can be set for production work. Holes in base for bolting securely to bench.



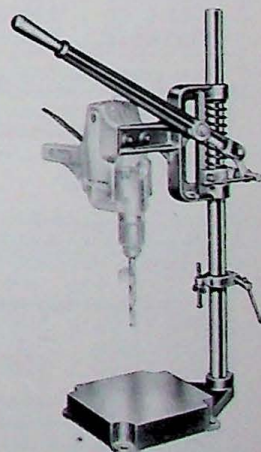
CATALOG NO. 3540

FOR CAT. NO. 1700 and LARGER SHOWN ABOVE



CATALOG NO. 3520

FOR CAT. NOS. 1600 and 1650 TOP OF PAGE 7



CATALOG NO. 3500

FOR D-HANDLE DRILLS LISTED ON PAGE 5

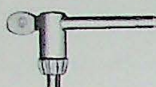
SPECIFICATIONS

Catalog No.	3500	3520	3540
Height of Post	24"	29 1/2"	36"
Max. Feed	3 1/2"	3 1/2"	5 1/2"
Size of Base	8" x 8"	8" x 8"	10" x 10"
Chuck to Base—Max.	13"	16"	17 1/2"
Chuck to Post	5 1/4"	6 3/8"	6 1/2"
Wgt. less Drill	21 lbs.	23 lbs.	33 lbs.
Ship. Weight	25 lbs.	25 lbs.	45 lbs.

DRILL ACCESSORIES

HIGHEST QUALITY FOR MAXIMUM EFFICIENCY

CHUCKS



JACOBS INDUSTRIAL CHUCKS			CHUCK KEYS
Chuck Key included			
Catalog No.	Cap.	Thread Size	Catalog No.
48-66-0260	1/4"	3/8"-24	48-66-3200
48-66-0300	1/4"	1/2"-20	48-66-3200
48-66-0500	5/16"	3/8"-24	48-66-3240
48-66-0540	5/16"	1/2"-20	48-66-3240
48-66-0800	3/8"	3/8"-24	48-66-3080
48-66-0840	3/8"	1/2"-20	48-66-3280
48-66-0880	3/8"	5/8"-16	48-66-3280
48-66-1280	1/2"	1/2"-20	48-66-3280
48-66-1440	1/2"	5/8"-16	48-66-3120
48-66-1640	5/8"	5/8"-16	48-66-3120
48-66-2040	3/4"	5/8"-16	48-66-3160
48-66-2050	3/4"	3/4"-16	48-66-3160

§ JACOBS CHUCKS for REVERSING DRILLS

Chuck Key included

48-66-0230•	1/4"	#1 Taper	48-66-3200
48-66-0240•	3/8"	#2 Taper	48-66-3080
48-66-1360	1/2"	1/2"-20	48-66-3280
48-66-1380	1/2"	5/8"-16	48-66-3280
48-66-1480	1/2"	#6 Taper	48-66-3120
48-66-1680	5/8"	#3 Taper	48-66-3120
48-66-2080	3/4"	#3 Taper	48-66-3160

§ Chucks for other drills with reversing motors
... specify model and serial numbers.

- Chuck Removal Wedges (Set of 2)
For 1/4" Drill — #1 Jacobs Taper
Catalog No. 49-91-0010
For 3/8" Drill — #2 Jacobs Taper
Catalog No. 49-91-0020

MORSE TAPER SOCKETS



★MORSE TAPER SOCKETS			DRIFT KEYS
Drift Key included			
49-66-0500	#1MT	5/8"-16	48-86-0050
49-66-0600	#2MT	5/8"-16	48-86-0050
49-66-0700	#3MT	5/8"-16	48-86-0070

* See page 7 for sizes required for specific models.

No. 2 to No. 1 MORSE TAPER SLEEVE



Catalog No. 48-03-0300

No. 2 M.T. Shank with a No. 1 M.T. Sleeve adapts to No. 2 M.T. Socket No. 48-66-0600 for use with any bit or accessory with No. 1 M.T. Shank.

Use Drift Key No. 48-86-0050

EXTENSION CORDS

For all electric tools. Oil resistant, Heavy-Duty Neoprene cords with plugs molded on and with duplex connectors.



Catalog No.	Lgh.	Type	Ga.
48-76-0100	25'	SO	14
48-76-0110	50'	SO	14
48-76-0120	50'	SJO	16

CARBIDE-TIP MASONRY BITS



SPECIAL FEATURES

- Alloy Steel Shank for Strength and Durability
- Narrow Lands and Fast Spiral for Rapid Dust Removal
- Shallow Precision Machined Oval Flutes Prevent Dust Packing
- Carbide Tip . . . The Hardest Metal Made . . . Brazed to Alloy Steel Bodies

Drills masonry, brick, stone, plaster, slate. Wide, spiral flutes lift dust out of hole. Bit cuts at maximum efficiency without clogging. Produces clean, accurately sized holes fast. Carbide tip resists dulling. Bits may be resharpened on bench grinder using silicon carbide grinding wheel. Bits in sizes from 1" through 1 1/2" are of two piece design. Shank is 1/2" hex dia. with 1/2"-13 thread . . . nut serves as bit shoulder.

Black Oxide Finish

Dia.	Cat. No.	Shank Dia.	Overall Bit Length
1/8"	48-87-0120	1/8"	3"
5/32"	48-87-0150	5/32"	3"
11/64"	48-87-0170	11/64"	3"
3/16"	48-87-0180	3/16"	3"
7/32"	48-87-0210	1/4"	3"
1/4"	48-87-0250	1/4"	4"
9/32"	48-87-0280	1/4"	4"
5/16"	48-87-0310	1/4"	4"
3/8"	48-87-0370	1/4"	4"
7/16"	48-87-0430	3/8"	6"
1/2"	48-87-0500	3/8"	6"
9/16"	48-87-0560	1/2"	6"
5/8"	48-87-0620	1/2"	6"
11/16"	48-87-0680	1/2"	6"
3/4"	48-87-0750	1/2"	6"
7/8"	48-87-0870	1/2"	6"
1"	48-87-1000	1/2"	10"
1 1/8"	48-87-1120	1/2"	10"
1 1/4"	48-87-1250	1/2"	10"
1 1/2"	48-87-1500	1/2"	10"

EXTENSION SHANKS

For Masonry Bits

For Two Piece Design Bits
From 1" thru 1 1/2" Dia. Only



1/2"-13
Thread

1/2"
Hex Shank

Length	Catalog No.
6"	48-28-8060
12"	48-28-8070
18"	48-28-8080
24"	48-28-8090
30"	48-28-8100
36"	48-28-8110

MISCELLANEOUS ACCESSORIES



SIDE
HANDLES



RUBBER-FLEX
KEY HOLDERS



PLUG
ADAPTER

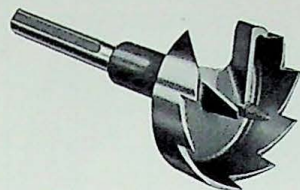
CARRYING CASE
FOR PISTOL DRILLS
and SCREW DRIVERS



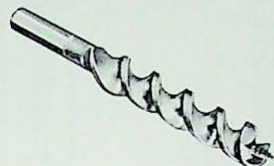
Catalog No.	Description
49-15-0100	Auxiliary Side Handle (pistol drill)
49-15-0200	Auxiliary Side Handle (D handle drills)
48-55-0705	Carrying Case (See Above)
48-55-0110	Carrying Case For Hole Hawg (1675-1)
48-66-4040	Rubber-Flex Key Holders
48-66-4080	For Key 48-66-(3240-3080-3280)
49-08-0500	For Key 48-66-3200
49-08-0800	1/2 lb. can "A" Grease
49-08-1000	1 lb. can "A" Grease
48-03-0010	1 lb. can "C" Grease
	Plug Adapter

DRILL ACCESSORIES

SELFEE BITS



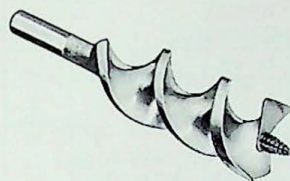
For big hole drilling in wood. For popular pipe sizes. Feed into work without pressure. $\frac{7}{16}$ " hex shanks have 3 milled flats for secure chuck grip. Side of bit tapered and beveled for easy removal from hole. Inside cutting plane shaves hole radius. Cuts clean, smooth holes. Sizes $1\frac{3}{4}$ " and larger have reversible and replaceable double-end feed screw pilots.



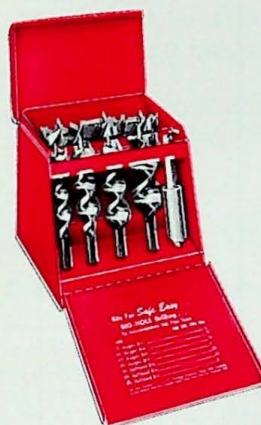
Large SELFEE BITS in $3\frac{5}{8}$ " and $4\frac{5}{8}$ " sizes have double inside cutter blades and a larger double-end feed screw pilot. Arbors for these 2 sizes can be removed and replaced.



AUGER BITS



Sizes from $\frac{3}{4}$ " to $1\frac{1}{2}$ "... All 4" twist and $6\frac{1}{2}$ " long. $\frac{7}{16}$ " hex shanks for sure chuck grip. Precision made of special bit steel, heat treated and tempered for long life. Feed screw pilot draws bit into wood. Cutting spurs and lips stay sharp longer. Double fluted twist with open throat remove chips fast.



PLUMBERS' BIT KIT

A complete assortment of "most commonly used" MILWAUKEE Bits for BIG-HOLE drilling. Sizes include $\frac{7}{8}$ ", $1\frac{1}{8}$ ", $1\frac{1}{4}$ ", $1\frac{1}{2}$ " Auger Bits and the famous MILWAUKEE "Selfeed" Bits in $1\frac{3}{4}$ ", $2\frac{1}{8}$ ", and $2\frac{1}{16}$ " diameters. Also $5\frac{1}{2}$ " hex extension shank and coupling, extra double-end feed screw pilot, socket wrench and steel carrying case. Shipping Weight $8\frac{1}{2}$ lbs.

BIT KIT (complete) Cat. No. 49-22-0060
Carrying Case only Cat. No. 48-55-0030

FLAT BORING BITS

For Use With Pistol Drills Only



3 Milled Flats for
Secure Chuck Grip

$\frac{1}{4}$ " to $1\frac{1}{2}$ " Diameters



Flat Boring Bits are precision made of high carbon steel for durability and long life. Bore clean holes fast at any angle in wood, plastic, plywood and formica. Drill point and cutting edges can be resharpened often.

FLAT BORING BIT KIT

Contains 6 popular size flat boring bits in heavy protective plastic. Assortment includes $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{7}{8}$ " and 1" sizes in pockets for orderly storage and easy size selection.



CATALOG NO.
49-22-0071

SPECIFICATIONS

Dia.	Catalog No.	Shank Dia.	Overall Length
$\frac{1}{4}$ "	48-27-0251	$\frac{3}{16}$ "	$6\frac{1}{8}$ "
$\frac{5}{16}$ "	48-27-0311	$\frac{3}{16}$ "	$6\frac{1}{8}$ "
$\frac{3}{8}$ "	48-27-0371	$\frac{1}{4}$ "	$6\frac{1}{8}$ "
$\frac{7}{16}$ "	48-27-0441	$\frac{1}{4}$ "	$6\frac{1}{8}$ "
$\frac{1}{2}$ "	48-27-0501	$\frac{1}{4}$ "	$6\frac{1}{8}$ "
$\frac{9}{16}$ "	48-27-0561	$\frac{1}{4}$ "	$6\frac{1}{8}$ "
$\frac{5}{8}$ "	48-27-0621	$\frac{1}{4}$ "	$6\frac{1}{8}$ "
$1\frac{1}{16}$ "	48-27-0681	$\frac{1}{4}$ "	$6\frac{1}{8}$ "
$\frac{3}{4}$ "	48-27-0751	$\frac{1}{4}$ "	$6\frac{1}{8}$ "
$1\frac{3}{16}$ "	48-27-0811	$\frac{1}{4}$ "	$6\frac{1}{8}$ "
$\frac{7}{8}$ "	48-27-0871	$\frac{1}{4}$ "	$6\frac{1}{8}$ "
$1\frac{5}{16}$ "	48-27-0941	$\frac{1}{4}$ "	$6\frac{1}{8}$ "
1"	48-27-1001	$\frac{1}{4}$ "	$6\frac{1}{8}$ "
$1\frac{1}{8}$ "	48-27-1121	$\frac{1}{4}$ "	$6\frac{3}{4}$ "
$1\frac{1}{4}$ "	48-27-1251	$\frac{1}{4}$ "	$6\frac{3}{4}$ "
$1\frac{3}{8}$ "	48-27-1371	$\frac{1}{4}$ "	$6\frac{3}{4}$ "
$1\frac{1}{2}$ "	48-27-1501	$\frac{1}{4}$ "	$6\frac{3}{4}$ "

SPECIFICATIONS

Catalog No.	Description	For Std. Pipe Sizes
48-25-1120	$1\frac{1}{8}$ " dia.	$\frac{1}{2}$ "
48-25-1250	$1\frac{1}{4}$ " dia.	$\frac{3}{4}$ "
48-25-1370	$1\frac{3}{8}$ " dia.	1"
48-25-1500	$1\frac{1}{2}$ " dia.	1"
48-25-1750	$1\frac{3}{4}$ " dia.	$1\frac{1}{2}$ "
48-25-2120	$2\frac{1}{8}$ " dia.	—
48-25-2250	$2\frac{1}{4}$ " dia.	—
48-25-2560	$2\frac{1}{2}$ " dia.	2"
48-28-6850	Dble. Feed Screw Pilot	—
49-96-0060	Socket Wrench	—

LARGE SELFEE BITS

48-25-3620	$3\frac{5}{8}$ " dia. •	3" ★
48-25-4620	$4\frac{5}{8}$ " dia. ▲	4" ★
48-07-0200	Replaceable Arbor	—
48-28-6860	Dble. Feed Screw Pilot	—
49-96-0070	Socket Wrench	—

• For MILWAUKEE $\frac{1}{2}$ " Model 1675-1 and larger.
▲ For Models 1675-1, 1750 and larger.
★ Cast Iron or Copper Pipe Size.

AUGER BITS

48-13-0750	$\frac{3}{4}$ " x 4" Twist	—
48-13-0870	$\frac{7}{8}$ " x 4" Twist	$\frac{3}{8}$ "
48-13-1000	1" x 4" Twist	—
48-13-1120	$1\frac{1}{8}$ " x 4" Twist	$\frac{1}{2}$ "
48-13-1250	$1\frac{1}{4}$ " x 4" Twist	$\frac{3}{4}$ "
48-13-1370	$1\frac{3}{8}$ " x 4" Twist	1"
48-13-1500	$1\frac{1}{2}$ " x 4" Twist	—

EXTENSION SHANKS

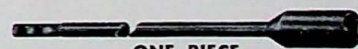
For Selfeed Bits and Auger Bits (1" dia. and larger) with $\frac{7}{16}$ " hex shanks.



COUPLING

EXTENSION

Require Coupling	Lgh.	Catalog No.
48-28-0920	$5\frac{1}{2}$ "	48-28-3112
	12"	48-28-3115
	18"	48-28-3300



ONE PIECE

No Coupling Required	18"	24"
	48-28-3400	48-28-3500

POWER SHIP AUGER BITS

Accurately machined for tough deep hole boring in wood for all types of construction. Use with $\frac{1}{2}$ " Hole-Shooters or larger. Feed screw point, one cutting edge and side lip produce fast cutting.

SPECIFICATIONS

	Dia.	Catalog No.
12" Twist	$\frac{9}{16}$ "	48-13-5560
	$\frac{5}{8}$ "	48-13-5620
	$1\frac{1}{16}$ "	48-13-5680
	$\frac{3}{4}$ "	48-13-5750
	$1\frac{3}{16}$ "	48-13-5810
	$\frac{7}{8}$ "	48-13-5870
	$1\frac{5}{16}$ "	48-13-5930
	1"	48-13-6000
	$1\frac{1}{16}$ "	48-13-6010
	$1\frac{1}{8}$ "	48-13-6120
	$1\frac{1}{4}$ "	48-13-6250
	$1\frac{3}{8}$ "	48-13-6370
	$1\frac{1}{2}$ "	48-13-6500

Nominal
Over-all Length
16" to $16\frac{1}{2}$ "

$\frac{7}{16}$ " x 3" Hex
Shank

HOLE SAWS

SHATTERPROOF

9/16" to 6"
Diameters



STANDARD

DEEP CUTTING

High Speed Steel
Cutting Edges
6 Teeth Per Inch

MILWAUKEE Hole Saws are high production tools for sawing holes in all machineable materials. A most economical means of extending the useful range of portable drills, drill presses and lathes. High speed cutting edges welded to rigid steel bodies produce clean, accurate holes. Shatter-proof construction makes them safe to use and provides an extra margin of durability.

DEEP CUTTING AND STANDARD TYPES

Deep cutting Hole Saws cut to 1 3/4" depth. Especially suited for cutting thru 2" dressed lumber.

Standard Hole Saws cut to 1 1/4" depth.

Arbor not included
with Hole Saw

HOLE SAW ARBORS

1/4" ROUND SHANK



Catalog No. 49-56-6950

With 1/2"-20 thread and 1/4" pilot drill.
For small Hole Saws. (See Table.)

7/16" HEX. SHANK



Catalog No. 49-56-7000

With 1/2"-20 thread and 1/4" pilot drill.
For 9/16" to 1 3/8" Hole Saws. (See Table.)

QUICK CHANGE ARBORS



7/16" HEX. SHANK

Catalog No. 49-56-7055

With 5/8"-18 thread and 1/4" pilot drill.
For 1 1/4" and larger Hole Saws.

5/8" HEX. SHANK

Catalog No. 49-56-7100

With 5/8"-18 thread and 1/4" pilot drill.
Recommended for 4" and larger Hole Saws.

Arbors and Hole Saws are inter-changeable with most other brands.

HOLE SAW KITS

STANDARD HOLE SAW KIT consists of 7/8", 1 1/8", 1 1/2", 1 3/4", 2", 2 1/2" sizes; Arbors Nos. 49-56-(7000 and 7055) and steel case.
Catalog No. 49-22-4050

DEEP CUTTING HOLE SAW KIT consists of 1", 1 1/4", 1 1/2", 1 3/4", 2 1/4", 3", 3 3/8" sizes; Arbors Nos. 49-56-(7000 and 7055) and steel case.
Catalog No. 49-22-4060

STEEL CASE ONLY Used with either of above kits
Catalog No. 48-55-0760



ACCESSORIES

PILOT DRILLS



Catalog No. 49-56-8000

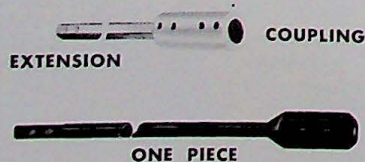
1/4" High Speed Pilot Drill. For use
with Hole Saw arbors.

Catalog No. 49-56-8002

1/4" High Speed Pilot Drill with 1/4"
fluting for light gauge metals.

EXTENSION SHANKS

For 7/16" hex shank arbors... 1" dia. Hole Saws and larger.



COUPLING

EXTENSION

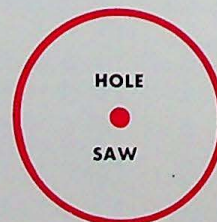
ONE PIECE

	Lgth.	Catalog No.
Require Coupling	5 1/2"	48-28-3112
	12"	48-28-3115
	18"	48-28-3300
No Coupling Required	18"	48-28-3400
	24"	48-28-3500

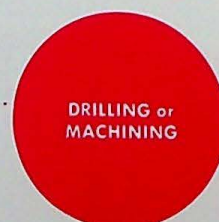
SPECIFICATIONS

Hole Dia Size	Catalog No.	Use with Arbor No	Pipe Sizes		For Copper Pipe Size (I.D.)
			Pipe Tap	Pipe Entrance	
DEEP CUTTING					
Cut to 1 3/4" depth					
7/8"	49-56-0871	49-56-6950		1/2"	5/8"
1"	49-56-1001	or			3/4"
1 1/8"	49-56-1121	49-56-7000		3/4"	3/4"
1 1/4"	49-56-1251	↑ 49-56-7055 or 49-56-7100 ↓			1"
1 3/8"	49-56-1371			1"	1 1/4"
1 1/2"	49-56-1501				1 1/2"
1 3/4"	49-56-1751			1 1/4"	2"
2"	49-56-2001			1 1/2"	2"
2 1/4"	49-56-2251				2"
2 1/2"	49-56-2501			2"	2"
3"	49-56-3001			2 1/2"	2 1/2"
3 3/8"	49-56-3371				3"
4 1/4"	49-56-4251				4"
STANDARD					
Cut to 1 1/4" depth					
9/16"	49-56-0560	↑ 49-56-6950 or 49-56-7000 ↓			1/8"
5/8"	49-56-0620				1/4"
1 1/16"	49-56-0680				3/8"
3/4"	49-56-0750			3/8"	1/2"
1 1/8"	49-56-0810			1/2"	5/8"
7/8"	49-56-0870				
1 1/16"	49-56-0930				
1"	49-56-1000				3/4"
1 1/8"	49-56-1060				
1 3/8"	49-56-1120			1"	3/4"
1 3/4"	49-56-1180			3/4"	
1 1/2"	49-56-1250	↑ 49-56-7055 or 49-56-7100 ↓			1"
1 3/8"	49-56-1310				
1 3/8"	49-56-1370			1"	
1 3/4"	49-56-1430				
1 1/2"	49-56-1500			1 1/4"	1 1/4"
1 1/4"	49-56-1560				
1 3/8"	49-56-1620				
1 1/8"	49-56-1680				
1 3/4"	49-56-1750			1 1/2"	1 1/4"
1 1/16"	49-56-1810				1 1/2"
1 7/8"	49-56-1870				
2"	49-56-2000			1 1/2"	
2 1/8"	49-56-2060				
2 1/8"	49-56-2120				
2 1/4"	49-56-2250			2"	2"
2 3/8"	49-56-2310				
2 3/8"	49-56-2370				
2 1/2"	49-56-2500			2"	2"
2 3/8"	49-56-2560				
2 3/8"	49-56-2620			2 1/2"	
2 3/4"	49-56-2750				
2 7/8"	49-56-2870				
3"	49-56-3000				2 1/2"
3 1/8"	49-56-3120				
3 1/4"	49-56-3250			3"	
3 3/8"	49-56-3370				
3 1/2"	49-56-3500				
3 3/8"	49-56-3620				
3 3/4"	49-56-3750		3 1/2"	3 1/2"	
3 7/8"	49-56-3870			4"	
4"	49-56-4000				
4 1/8"	49-56-4120				
4 1/4"	49-56-4250		4"	4"	
4 3/8"	49-56-4370				
4 1/2"	49-56-4500				
4 3/4"	49-56-4750				
5"	49-56-5000				
5 1/2"	49-56-5500				
6"	49-56-6000			5"	

The comparative area of metal which must be cut away to make a 4 1/2" dia. hole.



1.324 SQ. INS.



15.904 SQ. IN.

DRAIN CLEANER

11

**WITH TRIGGER SPEED CONTROL
AND REVERSING MOTOR**



QUICK, EASY RODDING OF UP TO 2" WASTE LINES

Powerful unit cleans out hard-to-get-at sink and toilet installations with ease ... eliminates removing traps or clean out plugs. Total speed control from 0 to 325 rpm lets operator start slowly to work past crossbars ... then run at whatever speed is needed to get through goosenecks and "T's" — remove stoppage. Just squeeze the trigger for the exact speed required on any job. The further the trigger is depressed, the higher the rpm. Reversing motor enables operator to spin cable in either direction for breaking up stoppage, freeing jammed hooks. Large external drum holds up to 30 feet of inner-core drop head cable. Jacobs chuck grips cable firmly, opens easily for fast cable feed.

OUTSTANDING FEATURES

- Comfortable, High Impact Strength Lexan® Pistol Grip.
- Solid State, 2-Pole Trigger Speed Control Switch Designed to Stand Up Under the Roughest Heavy-Duty Use.
- Mechanical Reversing Switch Interlock Prevents Accidental Reversing While Motor is Running.
- Milwaukee Heavy-Duty Motor Designed and Powered Specifically for Running Cable.

SPECIFICATIONS

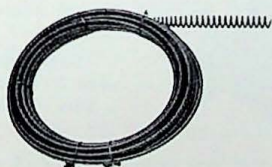
Cat. No.	Volts	Speed rpm	Cable Size	Max. Cable Length	Max. Pipe Size I.D.	Length (inches)	Net Wgt. Lbs.	Shp. Wgt. Lbs.
0562-1	115 60 cycle AC only	0 to 325	1/4" or 5/16"	30'	2"	17	9 1/4	36

Standard Equipment Includes: 1/4" x 25' Steel Cable Cat. No. 48-53-0010, 5/16" x 25' Steel Cable Cat. No. 48-53-0015, 1/4" Repair Hook Cat. No. 49-20-0020, 5/16" Repair Hook Cat. No. 49-20-0040, Cable Guide Holder Cat. No. 49-17-0160, Cable Guide Cat. No. 49-13-0010 and Steel Carrying Case Cat. No. 48-55-6050.



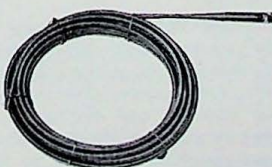
Flexible steel cable follows plumbing bends and quickly removes rust, scale, grease, silt etc. No time wasted disconnecting fittings.

STEEL CABLES



5/16" x 25' STEEL CABLE
Includes repair hook.
Cat. No. 48-53-0015

1/4" x 25' STEEL CABLE
Includes repair hook.
Cat. No. 48-53-0010



5/16" x 30' STEEL CABLE
Includes repair hook.
Cat. No. 48-53-0035

1/4" x 30' STEEL CABLE
Includes repair hook.
Cat. No. 48-53-0030

REPAIR HOOKS



For 1/4" CABLE
Cat. No. 49-20-0020

For 5/16" CABLE
Cat. No. 49-20-0040

INNER-CORE DROP HEAD CABLES

5/16" x 25' INNER-CORE DROP HEAD CABLE
Includes drop head, 3/4" cutter, Socket head screws and wrenches for changing heads.
Cat. No. 48-53-0020

5/16" x 30' INNER-CORE DROP HEAD CABLE
Includes drop head, 3/4" cutter, Socket head screws and wrenches for changing heads.
Cat. No. 48-53-0025

REPAIR BULB



For 5/16" Inner-Core Drop Head Cable
Cat. No. 48-50-0010

DROP HEAD ASSEMBLY



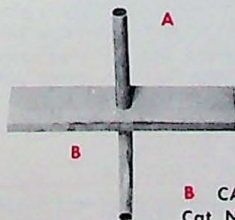
For 5/16" Inner-Core Drop Head Cable
Cat. No. 49-16-0010

CUTTERS

3/4" CUTTER Cat. No. 48-38-0050
1" CUTTER Cat. No. 48-38-0060

DROP HEAD PARTS KITS

For 5/16" Inner-Core Cable — includes Drop Head, set screw for drop head, Socket Wrench for drop head, 3/4" cutter, 1" cutter, set screws and Socket Wrench for cutters.
Cat. No. 49-22-2500



A CABLE GUIDE
Cat. No. 49-13-0010

B CABLE GUIDE HOLDER
Cat. No. 49-17-0160

MISCELLANEOUS ACCESSORIES

JACOBS CHUCK WITH COLLET
Cat. No. 48-66-0270



STEEL CARRYING CASE
Cat. No. 48-55-6050

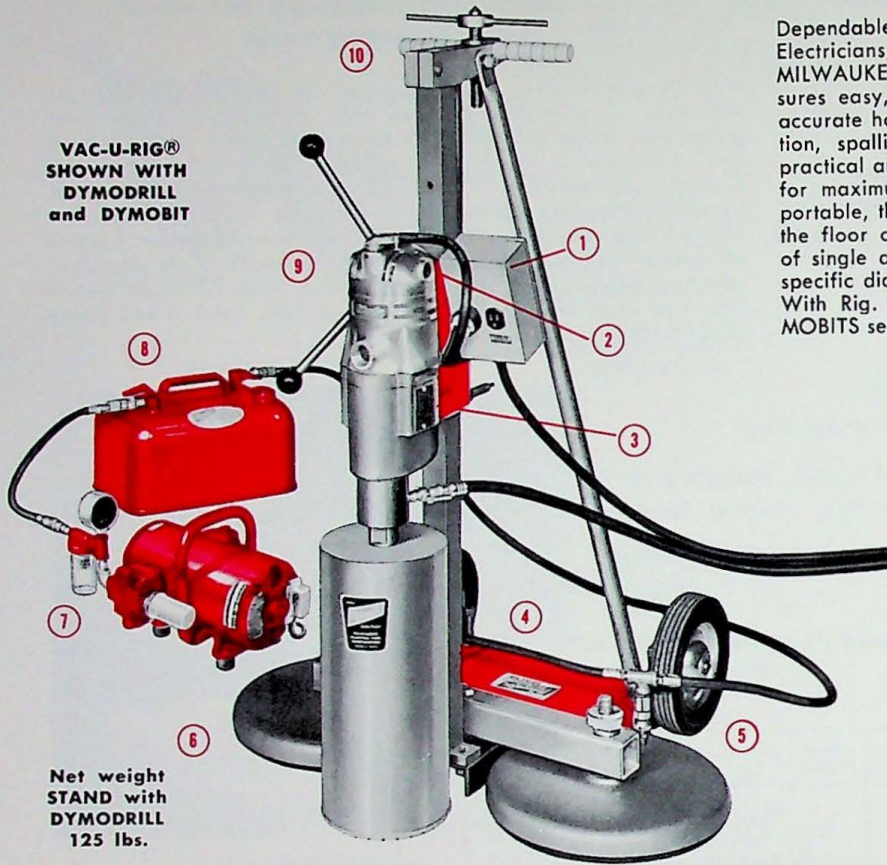


12 DYMODRILL EQUIPMENT

for Diamond Core Drilling in Concrete • Tile • Masonry

Dependable, powerful, rugged tools for Contractors, Plumbers, Electricians, Erectors and Maintenance Men. The combination of MILWAUKEE VAC-U-RIG® or DYMORIG and DYMODRILLS assures easy, quiet, economical diamond core-drilling of smooth, accurate holes in reinforced concrete. Eliminates sleeving, vibration, spalling or patching. This equipment provides the most practical and efficient method of rigidly positioning DYMODRILLS for maximum on-the-job diamond-drilling performance. Readily portable, they set-up in a few minutes and are easily secured to the floor or wall for vertical or horizontal drilling. A selection of single and 2-speed DYMODRILLS are also available to meet specific diamond-drilling requirements. DYMODRILL Not Included With Rig. Order VAC-U-RIG, DYMORIG, DYMODRILL and DY-MOBITS separately.

VAC-U-RIG®
SHOWN WITH
DYMODRILL
and DYMOBIT



Net weight
STAND with
DYMODRILL
125 lbs.

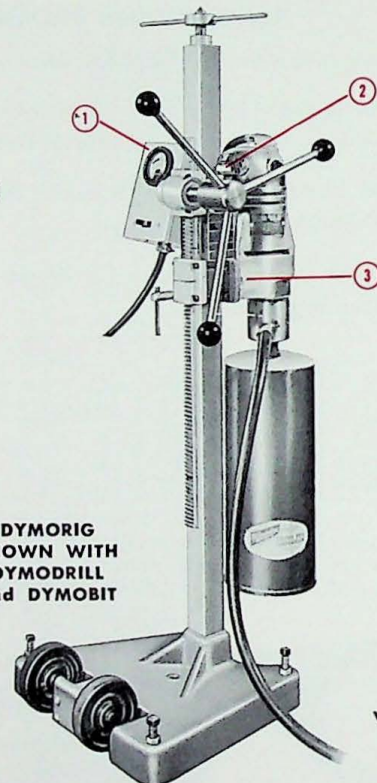
VAC-U-RIG®
CATALOG No. 4110
115 volts AC only

For use with DYMODRILLS. Includes stand with wheels and jack screw, vacuum pump, vacuum reserve tank, 2 vacuum pads, ammeter, bubble level, base leveling screws, cradle for mounting drill motor, four spoke wheel feed control, hose and fittings. Overall height 45". Net weight 139 lbs. Shipping weight 160 lbs.
Less DYMODRILL and DYMOBIT

OUTSTANDING FEATURES

- 1 **AMMETER** Two color range indicates proper pressure and drilling speed . . . guards against motor overload.
- 2 **BUBBLE LEVEL** Mounted at top of cradle. Base leveling screws provide quick set-up for true drilling.
- 3 **ACCURATE MOUNTING** Precision machined keyway securely positions DYMODRILL on cradle of VAC-U-RIG close to drill spindle. Assures accurate drilling alignment, stability.
- 4 **RIGID CONSTRUCTION** Solid steel column and tubular steel stabilizers provide maximum support for unit.
- 5 **EASY PORTABILITY** 8" rubber wheels are mounted on welded steel base and are off-the-floor when Rig is in use.
- 6 **VACUUM PADS** 13" diameter pads are cast aluminum with sponge rubber inserts. Vacuum line disconnects provide quick, simple set-up.
- 7 **VACUUM PUMP** Heavy-duty pump develops 3000 lbs. holding force within two 13" diameter vacuum pads.
- 8 **VACUUM RESERVE TANK** Prevents water from entering vacuum pump. Maintains limited vacuum reserve in event of power failure.
- 9 **RACK and PINION FEED** 27" travel — 4 spoke wheel control for uniform pressure. Operator feels drilling action of DYMOBIT.
- 10 **JACK SCREW** Used with Telescoping Assembly (See page 13) when vacuum is not required. Rig can also be anchor mounted thru hole in base.

DYMORIG
SHOWN WITH
DYMODRILL
and DYMOBIT



DYMORIG
with DYMODRILL
only 85 lbs.

DYMORIG
CATALOG No. 4100
115 volts AC only

For use with DYMODRILLS (see next page). Balanced . . . easy wheel portability. Rack and pinion feed — 24" travel — Operator feels drilling action of bit — 3 spoke feed control for uniform drilling pressure — Rugged aluminum base — Rigid stability for accurate, clean holes. Two color range ammeter indicates proper pressure and drilling speed — Jack Screw at top for bracing support to ceiling — Hole in base for anchor mounting — Base Leveling Screws and Bubble Level at top of cradle provide accurate setup. Cradle and Drill can be removed to lighten for installing base and column. DYMORIG can be used with VAC-U-RIG Attachment Kit. See next page. Net Wt. 65 lbs. Shp. Wt. 74 lbs. Less DYMODRILL and DYMOBIT.

VAC-U-RIG® Less All Vacuum Components CAT. No. 4111

For use with DYMODRILLS. Includes stand with wheels, jack screw, base leveling screws, bubble level, cradle for mounting drill motor and four spoke wheel feed control. Without vacuum, stand can be mounted to floor or wall with an expansion anchor or braced from the ceiling with telescoping assembly by using the jack screw. Net Wt. 86 lbs. Shp. Wt. 104 lbs. Less DYMODRILL and DYMOBIT.

For DYMODRILL ACCESSORIES and Full Line
of DYMOBITS See Following Pages 13 and 14

SINGLE SPEED and 2-SPEED DYMODRILLS

DYMODRILLS are specially designed for use with MILWAUKEE diamond core drilling rigs. Single speed models are available for bit diameters most commonly used. Two speed models increase versatility for a larger range of bit capacities and have a shift lever on the motor housing to transfer drive gear from one position to another — low speed for large bits and high speeds for small bits. Triple gear reduction and heavy-duty motor produce high torque and 2 1/4 HP at the spindle. All have heat-treated, helical-cut steel gears, ball and roller bearings, and shear pin at the spindle to protect gears and motor against overload.

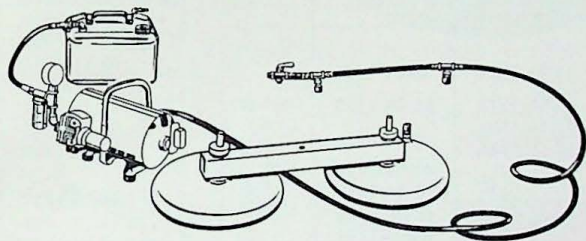
SPACER with KEY

CATALOG No. 49-67-0050

For above DYMODRILLS. Allows use of bits thru 10" diameter. Spacer 1" thick, fits between cradle of Rig and Drill. Four mounting screws included.

VAC-U-RIG® ATTACHMENT KITS

Complete vacuum assemblies consisting of two 13" diameter suction pads, cross-bar, vacuum pump assembly with switch, gauge, filter, vacuum reserve tank, air hose and fittings.



CATALOG No. 49-22-7050 for use only with Catalog No. 4100 DYMORIG. Converts to vacuum mounting. Net Wt. 65 lbs. Shp. Wt. 70 lbs.

CATALOG No. 49-22-7060 for use with stand only—Catalog No. 4111. Same as furnished as standard with VAC-U-RIG Catalog No. 4110. Net Wt. 59 lbs. Shp. Wt. 64 lbs.

VACUUM PUMP AC only CATALOG No. 49-50-0115

Heavy-duty 1/6 HP pump complete with vacuum gauge, air filter, switch and cord. Same as furnished with VAC-U-RIG. Net weight 25 lbs. Shipping weight 27 lbs.

VACUUM RESERVE TANK CATALOG No. 49-76-0060

Galvanized 3 1/2 gallon tank with 2 male disconnects and hose assembly. Same as furnished with VAC-U-RIG. Shipping weight 9 lbs.

WATER COLLECTOR RING

CATALOG No. 48-70-0050



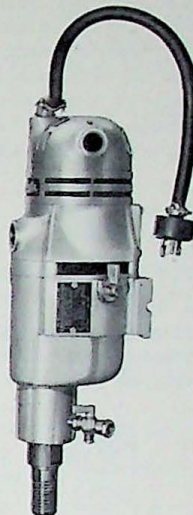
FOR BITS
THRU 8" DIA.

For use where water flow from drilling operation must be trapped and drained. Dike-type collector ring holds water for fast disposal. Used with pump described below. Shp. Wt. 6 lbs.

WATER COLLECTOR PUMP

AC only CATALOG No. 49-50-0050

Small heavy-duty pump of balanced impeller design, driven by 115 volt enclosed motor. Pumps out excess trapped water — abrasive-proof and quiet running. Furnished with reinforced plastic flexible hose. Shp. Wt. 12 lbs.



SPECIFICATIONS

Spindle thread size all models 1 1/4"-7.

Capacity ranges listed on specific models are for maximum drilling efficiency. All models can also be used for other diameters. For 9" and 10" diameter holes, use Spacer with Key Catalog No. 49-67-0050 and low speed DYMODRILLS.

Catalog No.	Speed RPM	Volts	Suggested Drilling Capacity	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
Single Speed					
4020	350	115 AC ONLY	5" to 8"	20	25
3940	500		4" to 5"	20	25
3880	750		2½" to 4¼"	20	25
3820	1000		1¼" to 3"	20	25
Two Speed					
4030	375-750	115 AC ONLY	2½" to 8"	24	32
4035	500-1000		1¼" to 5"	24	32

Standard equipment includes built-in water swivel, 8 ft. length of 3/8" heavy-duty rubber water hose complete with fittings and water control valve, extra shear pins, also an open end wrench for removing bits.

TELESCOPING EXTENSION ASSEMBLY

CATALOG No. 48-95-1000

Braces unit between floor and ceiling for maximum rigidity. Fixed hole adjustments. Assembly adjusts to 14 foot ceilings. Fractional take up between fixed settings made with jack screw at top of DYMORIG. Shp. Wt. 33 lbs.



WATER TANK

CATALOG No. 49-76-0050

3 1/2 gal. pressure type made of heavy gauge galvanized steel. For use where regular tap water supply is not available. Shp. Wt. 8 lbs.

MISCELLANEOUS

RUBBER WATER HOSE

CATALOG No. 49-18-0050

8' long 3/8" ID as furnished with all DYMODRILLS

1 1/2" OPEN END WRENCH

CATALOG No. 49-96-4700 for DYMODRILLS listed above.

3/8" SOCKET WRENCH

CATALOG No. 49-96-0085

For mounting DYMODRILLS to cradle of VAC-U-RIG.

TYPE "A" GREASE

1/2 LB. CAN

CAT. No. 49-08-0500

1 LB. CAN

CAT. No. 49-08-0800

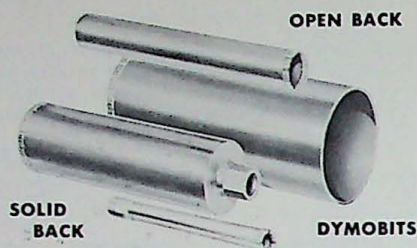


An 8" DYMOBIT cuts fast, clean and accurate using the VAC-U-RIG. Pump and Collector Ring disposes of water quickly. When drilling in corners a single pad can be used under center of base.



Drilling up close in tight corners is no problem. DYMORIG is braced to ceiling using telescoping assembly and jack screw at top of rig.

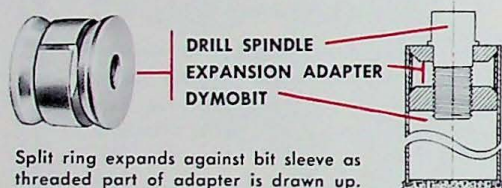
DYMOBITS and ACCESSORIES



FINEST QUALITY DIAMONDS

Only the highest quality industrial diamonds, carefully selected for uniformity and grade, are used in DYMOBITS. Special attention is given to position diamonds in the crown for a definite tracking pattern with best cutting edges exposed.

EXPANSION ADAPTERS FOR OPEN BACK DYMOBITS



For use with bits $1\frac{1}{4}$ " and larger. Self-centering, 3 piece friction drive—for easy positioning of bit sleeve and bit removal. Expansion adapters are reusable for new bits of the same size. By removing the sleeve from the adapter, an occasional lodged core can be removed from the back of the bit preventing damage to the crown.

SOLID BACK DYMOBITS



The welded adapter is an integral part of the Solid Back Bit. Precision machined and centered, the end of the adapter is threaded and milled flats are provided for easy removal of DYMOBIT from the spindle of Drill with open end wrench.

THREADED ADAPTER



CATALOG No. 48-04-0150

Reduces thread size of $1\frac{1}{4}$ "-7 to $\frac{7}{8}$ "-14 or $\frac{1}{2}$ "-20 for DYMOBITS of $1\frac{1}{4}$ ", $1\frac{3}{8}$ " and $1\frac{1}{2}$ " diameter. Used on DYMODRILLS listed in table on page 13.

9" BIT EXTENSION



CATALOG No. 48-95-1500

For DYMOBITS of $1\frac{1}{4}$ " diameter and larger. Both ends are threaded $1\frac{1}{4}$ "-7. Two or more extensions can be coupled together for deeper hole drilling. Used on DYMODRILLS listed in table page 13.

HARD AGGREGATE DIAMOND CORE BITS

DYMOBITS are designed to assure maximum cutting efficiency at minimum cost. Great concentration and orientation of the finest industrial diamonds set in a long wearing tungsten carbide matrix . . . assures increased drilling footage even in extremely hard materials or heavily reinforced concrete. Functionally designed waterways properly spaced in the matrix allow water to flush out cuttings, provide heat dissipation for long bit life. Drill bit tubes are precision machined and double cadmium plated.

4 TYPES AVAILABLE

OPEN and SOLID BACK — GENERAL PURPOSE For general core drilling in reinforced concrete, tile, masonry and marble.

OPEN and SOLID BACK — RED CROWN With diamond impregnated matrix for coring pre-stressed or reinforced concrete and other hard or highly abrasive materials. Diamond saturated matrix maintains uniform cutting efficiency for more footage, faster penetration and lower cost.

Nominal Bit Size O.D.	Bit Length	Open Back Bits		Expansion Adapter (Required) Catalog No.	★ Thread Size		Solid Back Bits
		Catalog No.	Gen. Purpose		Open Back Adapter	Solid Back Bit	
			Red Crown				Red Crown
$\frac{1}{4}$ "	3"	(1/4" Bit is non-coring type)					48-16-0250
$\frac{5}{16}$ "	3 1/2"						48-16-0310
$\frac{3}{8}$ "	4"	For DYMOBITS 1/4" through 1" dia.				$\frac{1}{2}$ "-20	48-16-0370
$\frac{1}{2}$ "	5"	Refer to Solid Back Bits					48-16-0500
$\frac{5}{8}$ "	10"	(Column at Right)					48-16-0620
$\frac{3}{4}$ "	10"						48-16-0750
$\frac{7}{8}$ "	10"						48-16-0870
1"	10"						48-16-1000
$1\frac{1}{4}$ "	12"	48-16-1251		48-04-1250		$\frac{7}{8}$ "-14	48-16-1252
$1\frac{3}{8}$ "	12"	48-16-1371		48-04-1370	$\frac{1}{2}$ "-20		48-16-1256
$1\frac{1}{2}$ "	12"	48-16-1501		48-04-1500			48-16-1372
		48-16-1510					48-16-1502
							48-16-1512
$1\frac{3}{4}$ "	12"	48-16-1751		48-04-1750	$1\frac{1}{4}$ "-7		
				48-04-1751	$\frac{1}{2}$ "-20		48-16-1752
		48-16-1780		48-04-1750	$1\frac{1}{4}$ "-7		
				48-04-1751	$\frac{1}{2}$ "-20		
2"	14"	48-16-2001		48-04-2000	$1\frac{1}{4}$ "-7		48-16-2002
		48-16-2010		48-04-2000	$1\frac{1}{4}$ "-7		48-16-2012
				48-04-2001	$\frac{1}{2}$ "-20		
$2\frac{3}{8}$ "	14"	48-16-2371		48-04-2370	$1\frac{1}{4}$ "-7		48-16-2372
				48-04-2371	$\frac{1}{2}$ "-20		
$2\frac{1}{2}$ "	14"	48-16-2501		48-04-2500	$1\frac{1}{4}$ "-7		48-16-2502
		48-16-2510		48-04-2501	$\frac{1}{2}$ "-20		48-16-2512
				48-04-2501	$1\frac{1}{4}$ "-7		
3"	14"	48-16-3001		48-04-3000		$1\frac{1}{4}$ "-7	48-16-3002
		48-16-3010					48-16-3012
$3\frac{1}{2}$ "	14"	48-16-3501		48-04-3500			48-16-3502
4"	14"	48-16-4001		48-04-4000			48-16-4002
		48-16-4010					48-16-4012
$4\frac{1}{4}$ "	14"	48-16-4251		48-04-4250			48-16-4252
$4\frac{1}{2}$ "	14"	48-16-4501		48-04-4500			48-16-4502
5"	14"	48-16-5001		48-04-5000			48-16-5002
		48-16-5010					48-16-5012
6"	14"	48-16-6001		48-04-6000	$1\frac{1}{4}$ "-7		48-16-6002
		48-16-6010					48-16-6012
$6\frac{1}{4}$ "	14"	48-16-6251		48-04-6250			48-16-6252
7"	14"	48-16-7000		48-04-7000			48-16-7001
8"	14"	48-16-8000		48-04-8000			48-16-8001
9"	14"	48-16-9000		48-04-9000			48-16-9001
10"	14"	48-16-9500		48-04-9500			48-16-9501
11"	12"						48-16-9550
12"	12"	For DYMOBITS 11" through 14" dia.					48-16-9600
13"	12"	Refer to Solid Back Bits					48-16-9650
14"	12"	(Column at Right)					48-16-9700

- Dimensions vary slightly from specified size. For sizes other than listed contact factory.
- ★ NOTE — Check thread size with spindle thread on Drill or refer to specifications for DYMODRILLS. It may be necessary to use a threaded Adapter to fit Drill spindle.
- ▲ When used with Drills with $1\frac{1}{4}$ "-7 thread use Threaded Adapter Cat. No. 48-04-0150.

STRAP WRENCHES



To remove DYMOBIT.
Available in two sizes.

CATALOG No. 49-96-8100
for bits up to 2" diameter.

CATALOG No. 49-96-8200
for bits from 2" to 8" dia.

Wet and Dry Pickup for Heavy-Duty Commercial Use

Steel or Stainless Steel Tanks • 1 1/2 HP Electric Bypass Motor • 85" Maximum Water Lift • 1.5 bu. Tank Capacity • Commercial 1 1/2" ID, 15' Hose • Automatic Shut-off for Wet Pickup.

Rugged industrial vacuums with plenty of power for the toughest cleaning jobs. Tremendous suction picks up water or dirt from cement, tile, hardwood floors and inaccessible areas. Designed for industrial, construction and automotive use ... indoor or outdoor applications. Also ideal for vacuuming up water and cuttings from diamond core drilling operations. Wastes completely bypass motor for trouble free operation. Heavy-gauge steel tank holds up to 1 1/2 bu. dry waste ... 8 gallons of water. Overflow control stops suction when liquid capacity is reached. Switching hose from intake port to exhaust port converts the unit to a powerful blower for cleaning inaccessible areas. Sturdy chrome-plated steel tubing handle and rugged 3 wheel caddy for easy maneuverability.

SPECIFICATIONS

115 volts

60 cycle only

Catalog No.	Recoverable Capacity		Tank	For Materials	Ht.	Width	Net Wgt. Lbs.	Shp. Wgt. Lbs.
	Dry	Wet						
8900	1.5 bu.	8 gal.	Steel	Wet-Dry	34"	24"	39	57
8905	1.5 bu.	8 gal.	Stainless Steel	Wet-Dry	34"	24"	39	57

STANDARD EQUIPMENT INCLUDES: 15 ft., 1 1/2" ID Hose, 3 Wheel Caddy, Filter Bags, Hose Clamp, Hose Nozzle and Crevice Tool.

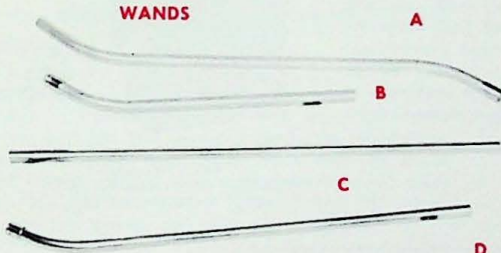


Cat. No. 8905

Cat. No. 8900

ACCESSORIES

WANDS



A 2-BEND ALUMINUM WAND

For normal cleaning. Five feet long with 45° bend on both ends, locking device.

Cat. No. 49-90-0010

B 3-FT. ALUMINUM EXTENSION

Furnished with snap lock for use with other wands or for close-quarter work.

Cat. No. 49-88-0010

C 5-FT. HIGH-UP TUBE

Sleeve assembly permits adding to other tubes for high work on walls, ceilings.

Cat. No. 49-88-0020

D 5-FT. TUBE WITH SNAP-LOCK

Lightweight and single bend for flexibility, greater reach. For high work.

Cat. No. 49-88-0030

ROUND BRUSH



For dusting small areas.

Cat. No. 48-52-4860

UPHOLSTERY TOOL



7" tool with sleeve.

Cat. No. 49-80-0100

9" HARD BRISTLE SWIVEL TOOL



Short, tight bristle for use on hard, rough surfaces. Gets into crevices.

Cat. No. 49-80-0120

9" SOFT BRISTLE SWIVEL TOOL



Long, soft bristle for use on walls and ceilings. Easily cleans away dust and soot.

Cat. No. 48-52-4850

CREVICE TOOL



Cat. No. 49-80-0150

25" PAW TOOL



For cleaning behind radiators, other hard to reach corners and crevices.

Cat. No. 49-80-0130

ROUND BLOWING TOOL



For blowing dust and dirt out of cracks and inaccessible areas. Excellent for machinery. Cat. No. 49-80-0110

RUBBER COATED NOZZLE



Cat. No. 49-30-0010

MAJOR FLOOR TOOL

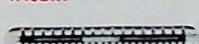


Versatile 14 inch tool for heavy-duty cleaning. Accommodates interchangeable inserts listed for special jobs.

Cat. No. 49-80-0140

14" CARPET INSERT

For Major Floor Tool. Bottom plate perfectly designed for cleaning rugs, carpeting.



Cat. No. 49-21-0030

14" FELT INSERT

Use with Major Floor Tool for walls and smooth hard floors such as tile, hardwood.



Cat. No. 49-21-0010

SQUEEGE INSERT

Use with Major Floor Tool. For fast drying of washed floors.



Cat. No. 49-21-0040

14" BRISTLE INSERT

For Major Floor Tool. For rough floors, large wall and ceiling areas.



Cat. No. 49-21-0020

DACRON FILTER BAG

Heavy-duty dacron bag fits over filter cage for wet or dry pickup. Washable.

Cat. No. 48-09-0010

PAPER FILTER BAG

Paper bag slips over dacron bag for pickup of fine powder and dust. Cat. No. 48-09-0050

RUBBER RETAINER (same as furnished with paper bag)

Cat. No. 48-67-0050

1 1/2" ID HEAVY-DUTY PLASTIC HOSES



15' Cat. No. 49-18-0070

10' Cat. No. 49-18-0080

7' Cat. No. 49-18-0090

HOSE CLAMP Cat. No. 48-67-0110

ELECTRO-MAGNETIC DRILL PRESSES

DRILLING • TAPPING • REAMING
IN 1/2" • 3/4" • 1 1/4" CAPACITIES

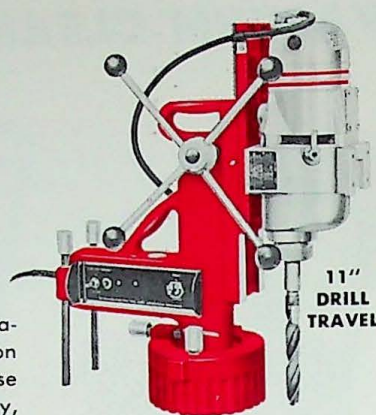
For

STEEL ERECTORS • BRIDGE BUILDERS
TOOL and DIE SHOPS • SHIPYARDS
MILLWRIGHTS • MAINTENANCE

MILWAUKEE Magnetic Drill Presses provide an ideal combination of power and magnetic holding force with precision accuracy. Solves tough and costly drilling problems. These ruggedly built units attach to steel surfaces horizontally, vertically or overhead with tremendous magnetic force. Brings the capacity of stationary drill presses to the job. Saves labor, cost of dismantling heavy machinery and transportation of large equipment.



1 1/4" DRILL NO. 4280-1
MOUNTED ON STAND NO. 4210
MEDIUM RECTANGULAR BASE



2-SPEED DRILL NO. 4295-1
MOUNTED ON STAND NO. 4230
WITH ROUND MAGNETIC BASE

Round Magnetic Base with machined surface affords smooth movement of units on work surface when positioning. Micro lateral adjustment provides precise positioning of drill point. Positioning locks secure swivel unit to base. Holds setting at any point within 180°.



3/4" DRILL NO. 4260-1
MOUNTED ON STAND NO. 4220
LARGE RECTANGULAR BASE
(DRILL REVERSE MOUNTED)

SINGLE SPEED OR 2-SPEED DRILLS

Single speed, MILWAUKEE-built Drill available in 1 1/4", 3/4" and 1/2" capacities at speeds of 350, 400 and 450 RPM respectively. All models furnished with reversing motors . . . triple gear reduction for maximum torque . . . all ball and roller bearings. Two new, 2-Speed Drills have all the advantages of the single speed models plus greater versatility in speed and drilling power. One with speeds of 375 and 750 RPM . . . the other with speeds of 250 and 500 RPM. Low speed for large hole boring, tapping and reaming . . . high speed for small hole drilling.

MAGNETIC DRILL STANDS

Rectangular Base models available in large, medium and small sizes are used for steel plates or sheets and steel beams . . . Round Base Magnetic Stand for steel plates or sheets. Permits easy positioning and precise control. All Drill Stands have precision machined ways . . . dovetail design for accurate drill travel. Positive rack and pinion feed and 4 spoke wheel control for use on either side. Demagnetizing switch for fast removal from work. Neon light indicates magnet energized.



1/2" DRILL NO. 4250-1
MOUNTED ON STAND NO. 4200
SMALL RECTANGULAR BASE

SPECIFICATIONS

Drill Stands and Drills are packaged and priced separately. When ordering, specify catalog numbers of both Drill Stand and Drill. Assembly of Drill to stand is easy. A single heavy-duty cord and plug supplies electrical power to stand and Drill. All Drill Presses are furnished with safety chain . . . a precaution against operator losing control of unit while positioning vertically, overhead, or from possible power failure.

115 VOLT UNITS

A.C. ONLY

ALL DRILLS ARE REVERSING

Stand Catalog No.	Drill Catalog No.	Capacity		Chuck or Taper	No Load R.P.M.	Drill Stand Dimensions			▲ Drill Point Pressure	Net Wgt. Stand Only	Comb. Net Wgt. Stand & Drill
		Drill	Tap†			Ht.	W.	L.			
4200 Small	4250-1 •	1/2"	1/2"-20	Chuck	450	12 1/2"	3 1/2"	10 1/2"	900 lbs.	33 lbs.	39 lbs.
4210 Med. Rect.	4260-1	3/4"	3/4"-16	Chuck	400	17"	3 3/4"	13"	1100 lbs.	47 lbs.	66 lbs.
	4270-1	3/4"	3/4"-16	No. 2 MT	400						63 lbs.
	4280-1 •	1 1/4"	1 1/4"-12	No. 3 MT	350						65 lbs.
	4290-1 x	1 1/4"	1 1/4"-12	No. 3 MT	750-375						69 lbs.
	4295-1 x	1 1/4"	1 1/4"-12	No. 3 MT	500-250						69 lbs.
4220 Large Rect.	4260-1	3/4"	3/4"-16	Chuck	400	18"	5"	13 3/4"	1700 lbs.	62 lbs.	81 lbs.
	4270-1	3/4"	3/4"-16	No. 2 MT	400						78 lbs.
	4280-1 •	1 1/4"	1 1/4"-12	No. 3 MT	350						80 lbs.
	4290-1 x	1 1/4"	1 1/4"-12	No. 3 MT	750-375						84 lbs.
	4295-1 x	1 1/4"	1 1/4"-12	No. 3 MT	500-250						84 lbs.
4230 Round	4260-1	3/4"	3/4"-16	Chuck	400	19"	7 1/2"	14"	1700 lbs.	53 lbs.	71 lbs.
	4270-1	3/4"	3/4"-16	No. 2 MT	400						68 lbs.
	4280-1 •	1 1/4"	1 1/4"-12	No. 3 MT	350						71 lbs.
	4290-1 x	1 1/4"	1 1/4"-12	No. 3 MT	750-375						74 lbs.
	4295-1 x	1 1/4"	1 1/4"-12	No. 3 MT	500-250						74 lbs.

X 2-speed drills. ▲ Maximum Pull on 1" Steel Plate, proportionately less on thinner sheets.

• Drill motors, except Nos. 4250-1 and 4280-1, have dual mount gear case permitting reverse mounting of drill for close-quarter work.

† Maximum tapping capacity is dependent upon variable conditions prevailing, such as material, condition of tap, pitch, type cutting fluid used, etc.

NOTE . . . To adapt a 3/4" capacity chuck to 1 1/4" Drills with No. 3 internal Morse Taper socket, specify Chuck No. 48-66-2000 and Arbor No. 48-07-0100

6' LENGTH SAFETY CHAIN

Same as furnished with unit.
(when ordered separately)

Catalog No. 48-58-0080

3/4" ELECTRIC HAMMER

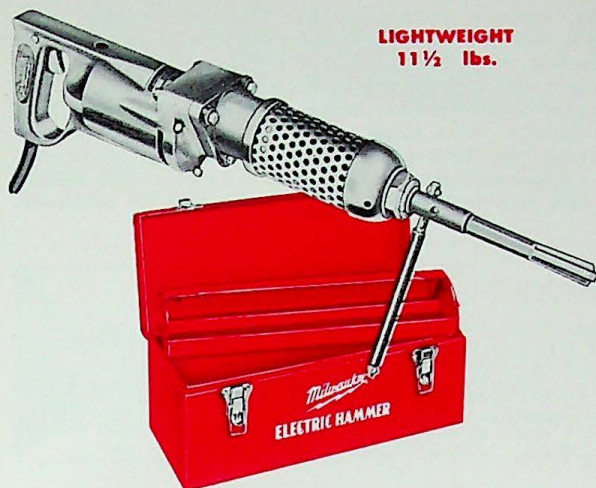
Ball and Roller Bearings

17

for Contractors • Industry • Maintenance • Installation

For drilling holes in concrete and masonry for conduit, anchors and expansion shields • Chipping • Channeling • Scaling
Chiseling and Tuck Pointing

Handles a wide range of Star Drills, Machined Type Drills, Tooth Anchors, Chisels and Bull Point. Lightweight, perfect working balance and ruggedly built for continuous use with the right combination of power, speed and durability. Hammer blow is forward only with a patented cushioned recoil mechanism to eliminate jolting action — This mechanism has been preferred and proven for over 40 years.



HARD HITTING HAMMER
3000 BLOWS PER MINUTE

Engineered for best performance, highest efficiency, dependability and long life.

Catalog No. 5360 Electric Hammer Kit. LIMITED SET — includes 3/4" Electric Hammer, with star drill chuck, 1/2" star drill, drift pin, tool retaining spring, grease gun, grease, and steel carrying case.

Catalog No. 5380 Electric Hammer Kit. Includes 3/4" Electric Hammer with taper star drill chuck, drift pin, tool retaining spring for chisels, one each bull point, cold chisel, brick cleaning chisel and mortar cutting chisel, eight assorted star drills 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4" and 7/8" sizes, grease gun, grease and steel carrying case.

SPECIFICATIONS

Catalog No.	Kit (See above)	AC/DC Volts	Shp. Wgt. (Lbs.)
5360	Limited	115	26
5380	Complete	115	30

Efficient Operating Limit (Dia.)..... 1 1/64" to 7/8"
Maximum Operating Dia..... 1 1/8"
Length overall (tool only)..... 16 7/8"

CONVERSION KIT

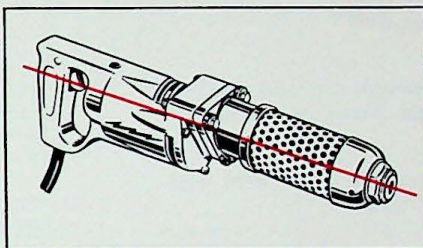
Catalog No. 48-62-0200 Additional accessories required to convert No. 5360 Limited Kit to No. 5380 Complete Kit



Milwaukee 3/4" Electric Hammer No. 5360 is an ideal tool for setting self-drilling anchors on installation and maintenance work using Tooth Anchor Chucks.

RUGGED CAM ACTION

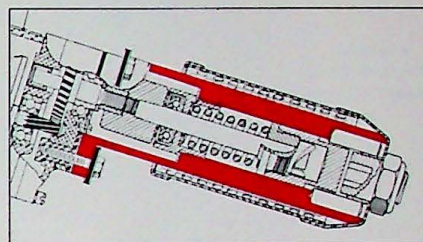
Simple, direct spring and cam action results in long life without loss of efficiency. "Ampco" aluminum bronze hammer cylinder withstands and absorbs powerful impact.



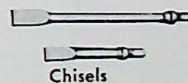
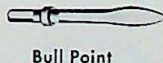
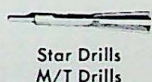
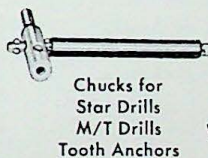
OUTSTANDING FEATURES

PERFECT BALANCE

Straight "In-Line" Hammer design provides perfect balance for ease in handling in any position and in close quarters. The weight is evenly distributed.



ACCESSORIES



Catalog No.	Description
STAR DRILLS and CHUCK	
48-88-0251	1/4" x 6"
48-88-0252	1/4" x 12"
48-88-0310	3/16" x 6"
48-88-0311	3/16" x 12"
48-88-0370	3/8" x 6"
48-88-0371	3/8" x 12"
48-88-0430	7/16" x 6"
48-88-0500	1/2" x 6"
48-88-0501	1/2" x 12"
48-88-0620	5/8" x 6"
48-88-0621	5/8" x 12"
48-88-0750	3/4" x 6"
48-88-0751	3/4" x 12"
48-88-0870	7/8" x 6"
48-88-0871	7/8" x 12"
48-88-1000	1" x 6"
48-88-1001	1" x 12"
48-88-1120	1 1/8" x 6"
48-66-5010	Star Drill Chuck ★

CHISELS	
48-62-0070	5/8" x 7" Cold Chisel
48-62-0050	5/8" x 12" Cold Chisel
48-62-0080	Brick Cleaning Chisel
48-62-0090	Mortar Cutting Chisel
BULL POINT	
48-62-0060	5/8" x 12"

Catalog No.	Description
M/T (Machined-Type) DRILLS	
48-88-5008	No. 8 1 1/4"
48-88-5010	No. 10 3/8"
48-88-5012	No. 12 1/4"
48-88-5016	No. 16 3/8"
48-88-5020	No. 20 3/8"
48-88-5500	— 1 1/2"
M/T DRILL CHUCKS	
48-66-5020	for No. 8 thru 14 ★
48-66-5030	for No. 16, No. 20 and 1 1/2" ★
TOOTH ANCHOR CHUCKS	
48-66-5100	FOR 1/4" O.D. 7/16"
48-66-5160	BOLT 3/8" OF 15/32"
48-66-5140	SIZE 1/2" ANCHOR 9/16"
48-66-5080	1 1/2" 11/16"
48-66-5180	3/8" 27/32"

MISCELLANEOUS	
48-55-0560	Carrying Case
49-08-0500	1/2 Lb. Can "A" Grease
49-08-0800	1 Lb. Can "A" Grease
49-08-0600	1/2 Lb. Can "B" Grease
49-08-0900	1 Lb. Can "B" Grease
49-14-0200	Grease Gun
49-68-0020	Tool Retaining Spring
48-86-0090	Drift Pin

★ Drift Pin Catalog No. 48-86-0090 included with each chuck.

HAMMER-DRILL

Ball and Roller Bearings



Available
With or Without
Steel Carrying
Case

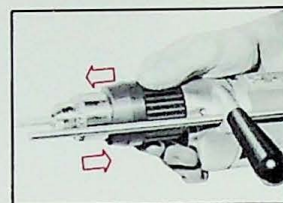
Versatile • Dependable • Low Cost Performance

Designed for Fast Percussion Drilling in Concrete or Masonry and High Speed Drilling Without Hammering in Wood or Metal.

For contractors, erectors, installation and maintenance men. Light weight, only 4½ lbs. . . . easy to handle. Powerful motor with high velocity fan cooling. Heat treated and hardened shafts. Wide, precision helical-cut gears. When hammer-drilling, light pressure against work engages mechanism. Hammer action stops when not under load . . . prevents damage when idling. All mechanism parts are case hardened for long life. Rubber dust shield protects against harmful abrasive dust. Adjustable depth gauge and removable side handle. Pistol grip of safe durable Lexan®. Trigger lock-button for continuous operation.

EXCLUSIVE

Simple, slide-shift action of fluted collar for fast easy change from hammering with rotation to rotation only. Shift forward for drilling wood or metal. Retract for percussion drilling in concrete or masonry.



PERCUSSION CARBIDE-TIP BITS

For Drilling Concrete and Masonry



These Carbide-Tip Bits are especially made with round shanks for use with Hammer Drills. Alloy steel shanks and bodies are heat treated for durability and long life. Highest quality carbide tips brazed to steel bodies resist dulling, stay sharp longer and can be resharpened often. Wide spiral with shallow oval flutes removes dust fast to assure maximum drilling efficiency.

Drills ¼" to ½" Anchor Holes in construction grade concrete with Percussion Carbide Tip Bits. 50,000 blows per minute at 2500 RPM.

Drills up to ¼" in steel and ½" in wood at 2500 RPM with drilling action only using standard drill bits.

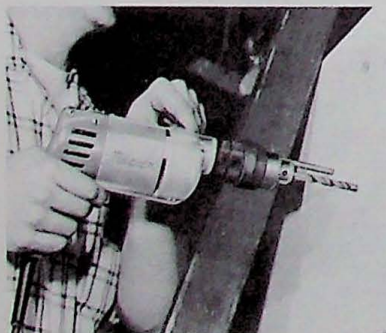
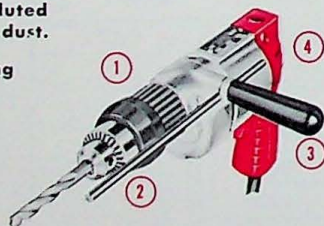
Catalog No. 5390 includes Hammer-Drill, depth gauge, removable side handle, rubber dust shield, special ⅜" industrial, geared, key-type chuck and chuck key.

Catalog No. 5395 Kit. Same as Catalog No. 5390. Also includes ⅜"x3", ¼"x4", ⅜"x4" and ½"x6" percussion carbide-tip bits and steel carrying case.

SPECIFICATIONS

Catalog No.	Blows Per Min.	No Load RPM	Length Inches	Net Wgt Lbs.	Shpg. Wgt Lbs.
5390 Tool Only	50,000	2,500	11	4½	7
5395 Kit					15

- 1 Rubber dust shield over chuck in front of fluted collar protects against harmful abrasive dust.
- 2 Depth gauge quickly adjusts to any drilling depth required for anchors.
- 3 Side handle for ease in handling . . . removable for close quarter work.
- 4 Comfortable pistol grip made of safe, durable Lexan®.



Drilling holes in masonry wall is fast and accurate. Bits ⅜" and ½" available in 13½" lengths for drilling thru 12" block walls.



Drilling ⅜" holes overhead for anchoring fixtures is simple. The 5390 Hammer-Drill is light and easy to handle.

SPECIFICATIONS

Bit Dia. (Inches)	Catalog No.	Shank Dia. (Inches)	Overall Length (Inches)
11/64	48-20-6170	11/64	3
3/16	48-20-6180	3/16	3
7/32	48-20-6220	7/32	3
1/4	48-20-6250	1/4	4
1/4	48-20-6251	1/4	6
9/32	48-20-6280	17/64	4
5/16	48-20-6310	17/64	4
5/16	48-20-6311	17/64	6
3/8	48-20-6380	5/16	4
3/8	48-20-6381	5/16	6
3/8	48-20-6382	5/16	13½
7/16	48-20-6440	3/8	6
15/32	48-20-6470	3/8	6
1/2	48-20-6500	3/8	6
1/2	48-20-6501	3/8	13½
9/16	48-20-6560	3/8	6

NOTE: Bits 11/64" thru 9/16" dia. are for use with Milwaukee Hammer-Drill with ⅜" chuck. Above bits and those listed below can be used with other Hammer-Drills depending upon chuck capacity. See shank dia. column.

5/8	48-20-6620	1/2	6
11/16	48-20-6690	1/2	6
3/4	48-20-6750	1/2	6
7/8	48-20-6880	1/2	6

⅜" SPECIAL CHUCK

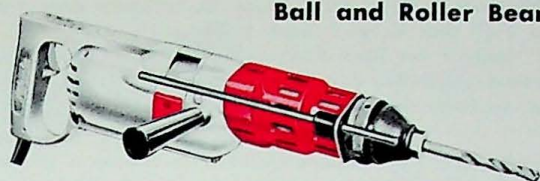
Catalog No. 48-66-0810 Industrial, key type, 3-jaw chuck with ⅜"-24 thread for use with Milwaukee Hammer-Drill. Includes Chuck Key No. 48-66-3240.

MISCELLANEOUS

Catalog No.	Description
49-62-0090	Rubber Dust Shield
48-55-0705	Steel Carrying Case
49-08-0500	½ Lb. Can "A" Grease
49-08-0800	1 Lb. Can "A" Grease
49-08-0150	3 oz. Lubricant for Mechanism

3/4" ROTARY HAMMER

Ball and Roller Bearings



Catalog No. 5350

**2500 HEAVY HAMMER BLOWS PER MINUTE
1000 RPM NO LOAD SPEED**

Catalog No. 5350 Rotary Hammer Kit. Includes 3/4" Rotary Hammer with "A" taper adapter, drift key, auxiliary side handle, depth gauge, dust shield, 3 oz. tube of lubricant for mechanism and steel carrying case.

Catalog No. 5355 Rotary Hammer Kit. Same as above. Also includes 6 "A" taper bits 1/4"x4", 3/8"x4 1/2", 1/2"x4 1/2", 5/8"x4 1/2", 3/4"x5" and 5/8"x5".

SPECIFICATIONS

Catalog No.	Capacity in Concrete	Blows per Min.	No Load RPM	Lqth. in.	Net Wgt. lbs.	Shpg. Wgt. lbs.
5350	3/4"★	2500	1000	17 1/2	10	21
5355	3/4"★	2500	1000	17 1/2	10	22

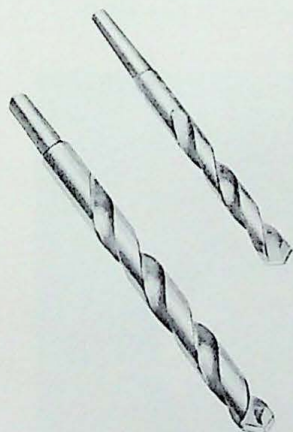
★Maximum Operating Diameter — 7/8".

ACCESSORIES

"A" TAPER PERCUSSION CARBIDE-TIP BITS

MILWAUKEE "A" Taper Bits have alloy steel shanks and bodies for strength and durability. Wide spiral with shallow flutes removes dust fast. Prevents packing and assures maximum drilling efficiency. Durable carbide-tip brazed to steel body . . . stays sharp longer. Use rotation with hammering action.

Bits Fit Directly Into Nose of Tool

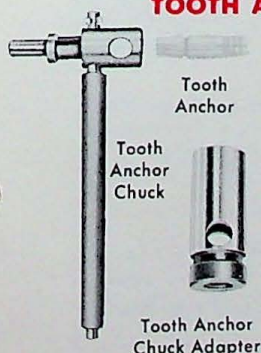


"A" TAPER BITS

Bit Dia. (in.)	Catalog No.	Overall Length (in.)	Max. Drilling Depth (in.)
1/4	48-20-3250	4	2
1/4	48-20-3252	6	4
5/16	48-20-3310	4 1/2	2 1/2
5/16	48-20-3312	6	4
3/8	48-20-3380	4 1/2	2 1/2
3/8	48-20-3381	9	7
3/8	48-20-3382	12	10
7/16	48-20-3440	4 1/2	2 1/2
7/16	48-20-3470	4 1/2	2 1/2
1/2	48-20-3499	9	7
1/2	48-20-3500	4 1/2	2 1/2
1/2	48-20-3501	12	10
9/16	48-20-3559	5	3
9/16	48-20-3560	9	7
5/8	48-20-3619	5	3
5/8	48-20-3620	9	7
5/8	48-20-3621	12	10
11/16	48-20-3690	5	3
3/4	48-20-3790	5 1/2	3 1/2
3/4	48-20-3795	9	7
7/8	48-20-3860	5	3

TOOTH ANCHOR CHUCKS and ADAPTER

Use with hammering action only — Manual Rotation



Catalog No.	Description
48-66-6720	For 1/4" - 3/16" Anchor
48-66-6730	Bolt Size 3/8" O.D. 7/16"
48-03-3615	Chuck Adapter
48-86-0100	Drift Pin
49-68-0075	Retaining Spring

TOOTH ANCHOR CHUCK KIT

Catalog No. 49-22-2050 Includes all items listed in table above.

for Percussion Carbide-Bit Drilling in Concrete and Masonry.

19

This powerful, lightweight Rotary Hammer is designed for fast, economical drilling—Drills 5 1/2" per minute with 1/2" bit in construction grade concrete — An ideal tool for drilling anchor holes. "A" taper bits in popular sizes fit directly into nose of tool. Light pressure against work engages hammer action. Hammering with spring-loaded ram mechanism is combined with high torque rotation for best drilling efficiency. Hammer action stops when not under load, preventing damage while idling. Adjustable depth gauge assures accurate drilling depths. Auxiliary side handle is interchangeable right or left. Dust shield protects mechanism when drilling overhead. Special air intake and exhaust vents provide maximum cooling.



SPECIAL FEATURES

**NO HOURLY OR DAILY OILING
GREASE PERIODICALLY
DEPENDENT UPON AMOUNT OF USE**

3-WAY ACTION

- HAMMERING WITH ROTATION
- HAMMERING ACTION ONLY
- ROTATION ONLY

CHISEL and CHISEL ADAPTER

Use with hammering action only

Chisel Adapter **Catalog No. 48-03-3620**
Fastens to nose of tool

Chisel **Catalog No. 48-62-0300**
Use retaining spring 49-68-0075.



1/2" INDUSTRIAL CHUCK and ADAPTER

Use with Rotation only

Chuck Adapter **Catalog No. 48-03-3590**
"A" taper shank. 1/2"-20 threaded end.

1/2" Jacobs Chuck **Catalog No. 48-66-1280**
Chuck Key No. 48-66-3280 included.



MISCELLANEOUS

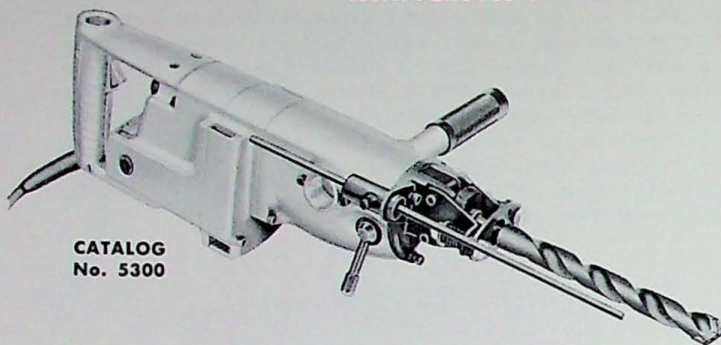
Catalog No.	Description
48-03-3610	"A" Taper Bit Adapter
48-86-0050	Drift Key for above
49-96-0080	Socket Wrench for Depth Gauge
49-62-0080	Dust Shield
49-08-0150	3 oz. Lubricant for Mechanism
48-55-0700	Steel Carrying Case
49-68-0075	Retaining Spring
49-08-0500	1/2 lb. Can "A" Grease
49-08-0800	1 lb. Can "A" Grease For Gears

●Same as furnished with Tool.



1 1/2" ROTARY HAMMER

**DRILL TO 2 1/2" DIAMETER
WITH PERCUSSION CORE BITS**



CATALOG
No. 5300

**NO HOURLY OR DAILY OILING
GREASE ONLY EVERY 2 TO 3 MONTHS
DEPENDENT UPON AMOUNT OF USE**

CATALOG No. 5300 ROTARY HAMMER includes Rotary Hammer in steel carrying case, depth gauge, pipe handle, 2 dust shields, 1 lb. can of grease and hammer tool adapter assembly.

CATALOG No. 5305 ROTARY HAMMER KIT same as above. Also includes a scaling chisel, slotting chisel, mortar chisel, 11" bull point, 11" cold chisel, "A" and "B" taper chucks, 1/4"x4", 3/8"x4 1/2", 1/2"x4 1/2", and 1/2"x4 1/2" "A" taper bits, a 3/4"x8 3/4" "B" taper bit and a drift pin.

SPECIFICATIONS

Catalog No.	R.P.M.			Blows Per Min.		Length	Net Weight	Shpg Weight
	Light Blow	Heavy Blow	Rotation Only	Light Blow	Heavy Blow			
5300	700	600	850	3800	3250	17"	19 3/4 lbs.	45 lbs.
5305								52 lbs.

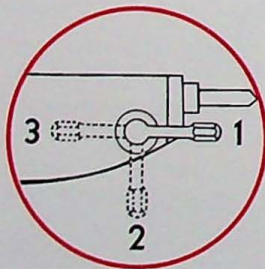
CONVERSION KIT

CATALOG No. 48-62-0205 Additional accessories to convert No. 5300 to No. 5305 as itemized above the specification table.

SPECIAL FEATURES

EXCLUSIVE 5-WAY ACTION

- Rotation with heavy hammer blow
- Rotation with light hammer blow
- Rotation without hammering
- Hammering with light blow
- Hammering with heavy blow



The shift lever repositions the cam which operates the hammer mechanism. Can be used freely because it does not engage or disengage gears. In No. 1 position the tool operates with rotation only. Use with industrial 1/2" chuck for drilling wood or metal. No. 2 position produces rotation and light hammering action. Use with percussion carbide-tip bits up to 1/2" diameter and larger when drilling soft materials. No. 3 position produces rotation with heavy hammering action. Use with percussion carbide-tip bits 1/2" and larger. For hammering action without rotation, use the tool adapter assembly. This fits into the nose of the tool to accommodate hammer tools such as chisels or bullpoints. Use the light blow (position 2) for scoring or when working in soft materials and the heavy blow (position 3) where full power is required.

ADJUSTABLE SAFETY CLUTCH

Protects operator, tool and bit. When bit jams or strikes re-bar, clutch slips—rotary action stops—prevents jolt to operator and excessive wear on bit shank or nose bushing. If clutch slips too readily, adjustment is easily made.

3-POSITION PIPE HANDLE

Offers ease in handling for use in any position. Pipe Handle can be used on either side of the motor housing or on top of switch handle.

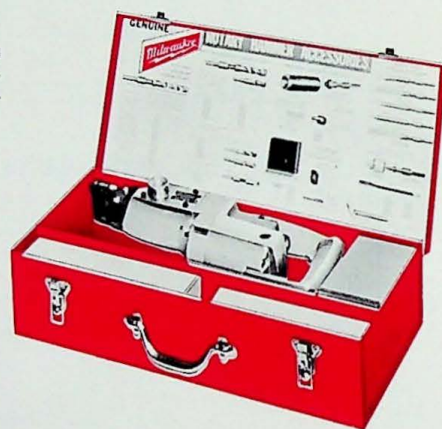
SPRING-LOADED DEPTH GAUGE

Guide rod locks under spring tension to maintain accurate setting when bit reaches pre-set depth. Simple to adjust and easily removed when tool is used for other work.

Fastest Drilling Rotary Hammer On The Market

For Percussion Carbide Bit Drilling in concrete and masonry 1/4" thru 1 1/2" dia. holes • Core Drilling 1 1/4", 1 1/2", 1 3/4", 2" and 2 1/2" holes • for Shell Anchors • Drills Steel to 1/2" diameter • Hammer Tools for chiseling, channeling, demolition work, chipping, scaling, slotting and tuck-pointing.

The MILWAUKEE 1 1/2" Rotary Hammer is the most dependable and versatile Rotary Hammer you can buy. It is designed for rugged use and long life. Hammer mechanism is a practical combination of heavy spring and cam action. The lift cam is counter balanced to minimize tool vibration. Hammering ram is made of tool steel, precision ground and hardened. The ram is spring loaded and free floating. This mechanism will outlast any semi-pneumatic, piston type hammer. "In-Line" design of the Rotary Hammer prolongs motor and bearing life... Triple gear reduction... Heat treated gears and hardened shafts. During idling periods, shock of ram is absorbed by 6 disc springs protecting components. Armature bearings are supported by flat neoprene washers which prevent transmission of shock to the armature. Large fan and special vents provide maximum motor cooling.



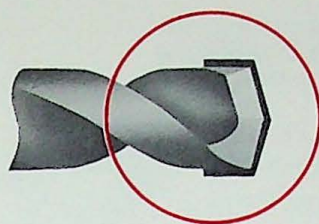
Drilling 1" anchor holes in concrete for the installation of heavy machinery is done fast and accurate with the 5300 Rotary Hammer.

See pages 21 and 22 for Percussion Carbide-Tip Bits, Hammer Tools and other accessories for the 5300 Rotary Hammer.

PERCUSSION CARBIDE-TIP BITS

For Model 5300
Rotary Hammer

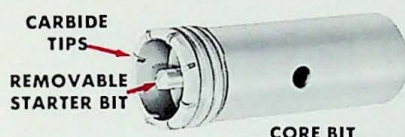
21



HIGHEST QUALITY CARBIDE TIP BRAZED TO STEEL BODY

Specially designed for continuous use with heavy blow and rotary action, MILWAUKEE Percussion Carbide-Tip Bits have heat-treated alloy steel shanks and bodies for durability and long life. Wide spiral with shallow oval flutes removes dust fast as it drills, resists packing and assures maximum drilling efficiency. Highest quality carbide tip is brazed to steel body, resists dulling, stays sharp longer and can be resharpened often.

ROTARY PERCUSSION CORE BITS



MILWAUKEE Core Bits have heat-treated steel bodies with durable carbide tips. Specially designed for fast, accurate drilling with heavy hammering and rotary action.

CORE BITS

1 1/4" x 6"	Cat. No. 48-20-5250
1 1/2" x 6"	48-20-5510
1 3/4" x 6"	48-20-5760
2" x 6"	48-20-6010
2 1/2" x 6"	48-20-6050

Above includes Core Bit and Starter Bit.
Order Core Bit Adapter separately.

1/2" STARTER BITS

Same as furnished with Core Bits.
For 1 1/4" Cat. No. 48-20-6105
For 1 1/2" 48-20-6110
For 1 3/4" 48-20-6120
For 2" 48-20-6130
For 2 1/2" 48-20-6140



CORE BIT ADAPTERS

Order Separately

For 1 1/4" Core Bit
Cat. No. 48-03-3510

For 1 1/2", 1 3/4", 2" and 2 1/2" sizes
Cat. No. 48-03-3500
Above also fit Skil 726
Adapter Nut Included

To use MILWAUKEE Core Bits with other rotary hammers. (1 1/2" thru 2 1/2" dia. sizes only).

For Skil 728
Catalog No. 48-03-3560
For B & D 717, 718
Catalog No. 48-03-3570

EXTENSIONS

For 1 1/4" Core Bit
12" Long Cat. No. 48-95-6060
For 1 1/2", 1 3/4", 2" and 2 1/2" Core Bits
7 1/2" long Cat. No. 48-95-6000
12" long Cat. No. 48-95-6050

For High Speed, Low Cost Drilling in Concrete and Masonry

AVAILABLE IN TWO TYPES

GENERAL PURPOSE BITS are used for deep hole drilling. No adapter is required. One piece bits fit directly into the nose of the hammer. Sizes range from 1/2" to 1 1/2" diameter. Shorter bits with "A" or "B" taper shanks are used with taper chucks. Bits with taper shanks are economical and recommended where only shallow holes are needed.

FLAT TIP BITS are used for drilling accurate holes for anchors. Available in one piece or "B" taper shanks and in diameters from 3/8" to 1 1/8". Drill true holes with virtually flat bottoms for maximum seating and holding of anchors and expansion shields. Holes can be drilled to preset depth through use of depth gauge on Rotary Hammer.

GENERAL PURPOSE BITS

ONE PIECE

7/16" HEX. x 2 1/8" LONG SHANK

Bit Dia. (in.)	Catalog No.	Overall Length (in.)	Max. Drilling Depth (in.)
1/2	48-20-1500	10	4 1/2
1/2	48-20-1502	16	10 1/2
1/2	48-20-1504	22	16
3/8	48-20-1560	12	6 1/2
3/8	48-20-1630	10	4 1/2
3/8	48-20-1632	16	10 1/2
3/8	48-20-1634	22	16
1/2	48-20-1690	12	6 1/2
3/4	48-20-1750	10	4 1/2
3/4	48-20-1752	16	10 1/2
3/4	48-20-1754	23 1/2	18
1/2	48-20-1880	12	6 1/2
1/2	48-20-1882	23 1/2	18
1	48-20-2000	12	6 1/2
1 1/8	48-20-2002	23 1/2	18
1 1/8	48-20-2130	12	6 1/2
1 1/8	48-20-2132	23 1/2	18
1 1/4	48-20-2250	12	7
1 1/4	48-20-2251	23 1/2	18
1 3/8	48-20-2370	12	7
1 3/8	48-20-2372	23 1/2	18
1 1/2	48-20-2500	15	10
1 1/2	48-20-2502	23 1/2	18

TAPER SHANK BITS USE TAPER CHUCKS

"A" TAPER BITS USE "A" TAPER CHUCKS

Bit Dia. (in.)	Catalog No.	Overall Length (in.)	Max. Drilling Depth (in.)
1/4	48-20-3250	4	2
1/4	48-20-3252	6	4
5/16	48-20-3310	4 1/2	2 1/2
5/16	48-20-3312	6	4
3/8	48-20-3380	4 1/2	2 1/2
3/8	48-20-3381	9	7
3/8	48-20-3382	12	10
7/16	48-20-3440	4 1/2	2 1/2
15/32	48-20-3470	4 1/2	2 1/2
1/2	48-20-3499	9	7
1/2	48-20-3500	4 1/2	2 1/2
1/2	48-20-3501	12	10
9/16	48-20-3559	5	3
9/16	48-20-3560	9	7
5/8	48-20-3619	5	3
5/8	48-20-3620	9	7
5/8	48-20-3621	12	10
11/16	48-20-3690	5	3
3/4	48-20-3790	5 1/2	3 1/2
3/4	48-20-3795	9	7
7/8	48-20-3860	5	3

FLAT TIP BITS

ONE PIECE

7/16" HEX. x 2 1/8" LONG SHANK

Bit Dia. (in.)	Catalog No.	Overall Length (in.)	Max. Drilling Depth (in.)
3/16	48-20-4440	8	2 3/4
15/32	48-20-4470	8	2 3/4
1/2	48-20-4500	8	2 3/4
5/16	48-20-4560	8	2 3/4
5/8	48-20-4650	8	2 3/4
11/16	48-20-4690	8	2 3/4
3/4	48-20-4750	9	4
27/32	48-20-4840	9	4
7/8	48-20-4870	9	4
1	48-20-5000	12	7
1 1/8	48-20-5130	12	7

TAPER CHUCKS

TAPER CHUCKS FOR "A" & "B" TAPER SHANK BITS

Drift pin included with each chuck.

Taper Chuck	Model Number	Catalog Number
"A"	MILWAUKEE	48-66-6500
"B"	5300	48-66-6501
"A"	B & D	48-66-6506
"B"	717-718	48-66-6505
"A"	Skil 706	48-66-6708
"A"	Skil 726	48-66-6500
"B"	Skil 726	48-66-6501
"A"	Skil 728	48-66-6709
"B"	Skil 728	48-66-6710
"B"	Skil 736	48-66-6507
"A"	Skil 1706	48-66-6708
Drift Pins	when ordered separately	48-86-0090*
		48-86-0100

*Use with Chuck No. 48-66-6708

ROTARY HAMMER ACCESSORIES

For Model 5300
Rotary Hammer

Chucks for Tooth Anchors • Hammer Tools for Chiseling, Channeling, Demolition Work, Chipping, Scaling, Slotting and Tuckpointing • Industrial 3-Jaw Chuck for Drilling Wood and Metal • Star Drills and Star Drill Chuck

HAMMER TOOLS

Made of Highest Quality Forged Steel
Use With Tool Adapter Assembly

SCALING CHISEL



1 3/4" x 5 1/2" x 10" long

For removing weld spatter or scale and cutting between drilled holes in concrete for large openings.

Catalog No. 48-62-0210

MORTAR CUTTING CHISEL

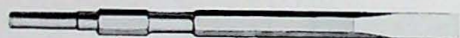


1" x 5" x 11" long

For removing old mortar for tuckpointing or caulking and seaming.

Catalog No. 48-62-0230

COLD CHISELS



3/4" x 11" or 18" long

For edging, chipping or channeling.

Cat. No. 48-62-0250 11" lg.

Cat. No. 48-62-0252 18" lg.

BULL POINTS



11" or 18" long

For demolition work.

Cat. No. 48-62-0240 11" lg. Net

Cat. No. 48-62-0248 18" lg. Net

SLOTING CHISEL



1 1/8" x 5 1/2" x 11" long

For slotting and cutting between drilled holes in concrete and masonry.

Catalog No. 48-62-0220

INDUSTRIAL CHUCK and ADAPTER



Chuck Adapter
Catalog No. 48-03-3000



1/2" Chuck
Catalog No. 48-66-1280

Used with rotation only. Chuck threads on chuck adapter (1/2"-20 thread). Capacity in steel 1/2". Use as regular drill for other applications. Chuck key No. 48-66-3280 included with chuck (see page 8). Order both chuck and chuck adapter.

DUST SHIELD

Catalog No. 49-62-0070

Same as furnished with each tool. Keeps foreign matter from entering nose of tool. Prevents grease contamination.

TOOL ADAPTER ASSEMBLY

Catalog No. 48-03-0050

Same as furnished with each tool. Must be used with hammer tools for hammering action only.

TOOTH ANCHOR CHUCKS

For Self-Drilling Anchors

Use with "B" Taper Chucks

Catalog No.	Description
48-66-6520	FOR 3/16" - 1/4" O.D.
48-66-6540	FOR 5/16" OF 15/32"
48-66-6560	BOLT SIZE 3/8" OF 9/16"
48-66-6580	SIZE 1/2" ANCHOR 11/16"
48-66-6600	5/8" 27/32"

For final setting of anchors 1/2" and 5/8" use hand hammer and setting tool.



"B" Taper Chuck

Tooth Anchor Chuck

Self-Drilling Anchor

For Automatic Rotation

"B" Taper Chuck Required

Catalog No. 48-66-6501

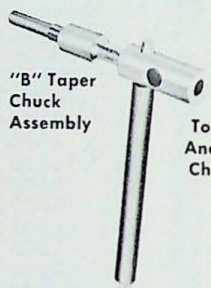
Drift Pin 48-86-0100 included

For Manual Rotation

"B" Taper Chuck Assembly Required

Catalog No. 48-03-3600

Drift Pin 48-86-0100 included



"B" Taper Chuck Assembly

Tooth Anchor Chuck

Self-Drilling Anchor

TOOTH ANCHOR CHUCK KIT

Catalog No. 49-22-2000

Tooth Anchor Chucks for bolt sizes 3/16", 1/4", 3/8", 1/2" and 5/8"; "B" Taper Chuck (48-66-6501) with Drift Pin (48-86-0100) and steel case.

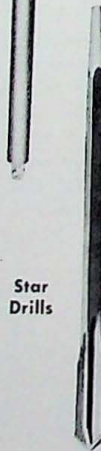


STAR DRILLS and STAR DRILL CHUCK

For Manual Rotation with Hammering Action Only



Star Drill Chuck



Star Drills

Catalog No.	Description
48-88-0251	1/4" x 6"
48-88-0252	1/4" x 12"
48-88-0310	5/16" x 6"
48-88-0311	5/16" x 12"
48-88-0370	3/8" x 6"
48-88-0371	3/8" x 12"
48-88-0430	7/16" x 6"
48-88-0500	1/2" x 6"
48-88-0501	1/2" x 12"
48-88-0620	5/8" x 6"
48-88-0621	5/8" x 12"
48-88-0750	3/4" x 6"
48-88-0751	3/4" x 12"
48-88-0870	7/8" x 6"
48-88-0871	7/8" x 12"
48-88-1000	1" x 6"
48-88-1001	1" x 12"
48-88-1120	1 1/8" x 6"
48-66-6050	Star Drill Chuck*
48-86-0090	Drift Pin

*Drift Pin Included with Chuck.

MISCELLANEOUS

48-55-0600	Carrying Case Only (for 5300 Rotary Hammer)
48-86-0100	Drift Pin
49-08-0500	1/2 lb. Can "A" Grease
49-08-0800	1 lb. Can "A" Grease

JIG-SAWS

Fast . . . Powerful . . . Accurate
3500 Strokes Per Minute

23

SINGLE SPEED UNIT



VARIABLE SPEED UNIT

Available
With or Without
Steel Carrying
Case



EXCLUSIVE FEATURES

PIVOTING HEAD



Cutting head is adjustable—right or left—to full 45° angle . . . calibrated settings. Locks at required angle by tightening a single screw. Handle remains in upright position.

TURN and LOCK SHOE



Shoe quickly adjusts for straight, miter or flush cuts. Adaptable for every sawing application. Loosen and rotate shoe to required position. Holes in the shoe are placed on two locator pins on base of tool, then locked by tightening flat head screw.

ACCESSORIES

JIG-SAW BLADE CARD

Cat. No. 49-22-1160 Same as furnished with each Jig-Saw. Consists of one each 48-42-(0100, 0120 and 0140) for metal, and 48-42-(0200, 0220, 0240, 0300, 0400, 0600 and 0640) for wood—a total of 10 blades.

WRENCH AND SCREW KITS

Cat. No. 49-22-5060 For Jig-Saws below Serial No. 281-11240. Consists of five 49-96-0060 1/8" Socket Wrenches for blade clamp, five 49-96-0080 3/16" Socket Wrenches for pivoting head and shoe adjustments. Also twenty blade clamp screws.

Cat. No. 49-22-5070 For Jig-Saws Serial No. 281-11240 and above. Consists of five 49-96-0050 3/32" Socket Wrenches for blade clamp, five 49-96-0080 3/16" Socket Wrenches for pivoting head and shoe adjustments. Also twenty blade clamp screws.

STEEL CARRYING CASE

Cat. No. 48-55-1070

TYPE "A" GREASE

1/2 LB. CAN 49-08-0500
 1 LB. CAN 49-08-0800

SPECIFICATIONS

Catalog No.	Length of Stroke	Strokes per Minute	Overall Incl. Shoe			Net Wgt. (Lbs.)	Shp. Wt. (Lbs.)
			Length	Width	Height		
SINGLE SPEED UNIT . . . 115 Volt AC-DC							
6270 with case	¾"	3500	8"	3½"	5¼"	5	14
6250 less case							8
SPEED CONTROL UNIT . . . 115 Volt 60 Cycles AC Only							
6285 with case	¾"	1400 to 3500	9½"	3½"	5¼"	5¼	14
6280 less case							8

Standard equipment includes Jig-Saw Blade Card 49-22-1160 for wood and metal—a total of 10 blades. Also included are a combination circle and rip guide, socket wrench and an extra blade clamp screw.

Genuine MILWAUKEE Jig-Saw Blades

Designed for best cutting efficiency. Custom milled teeth set and hardened for maximum performance. Special tang properly positions blade in the blade clamp. Universal 1/4" tang fits most brands of jig saws.

CATALOG NO.	Lgth. (In.)	Teeth per Inch	Quan per Pkg.	RECOMMENDED FOR CUTTING	
METAL CUTTING . . . High Speed Steel Blades.					
48-42-0100	2 7/8	14	5	Steel to 1/8", non-ferrous metals to 1/4", Plastics, Asbestos, Fiberglass, rigid conduit, hard rubber and fiber.	
48-42-0101				Same as above. 25% thicker for most severe applications.	
48-42-0120				18	Metals 18 Ga. to 10 Ga., tubing, plastics.
48-42-0140				24	Metals lighter than 18 Ga., thin wall tubing, slate, formica.
WOOD CUTTING . . . GENERAL PURPOSE . . . High Carbon Steel.					
48-42-0200	3	7	5	Pocket and roughing cuts on heavier sections. Fiberboard, asbestos, asphalt.	
48-42-0220		10		Same as 7 tooth but for smoother finish.	
48-42-0240				Hollow Ground for smoothest sawing.	
WOOD CUTTING . . . FLUSH CUTTING . . . High Carbon Steel.					
48-42-0300	4	7	4	Same use as 7 tooth General Purpose. Saws up to a wall.	
WOOD CUTTING . . . DELUXE . . . High Speed Steel.					
48-42-0400	2 3/4	6	5	1/4" wide, "shear tooth" for fast roughing work on light and medium sections. Pocket cuts.	
48-42-0420	3 3/4		4	3/8" wide. Same as above for fast roughing work on heavier sections.	
WOOD CUTTING...DELUXE HOLLOW GROUND...High Speed Steel.					
48-42-0500	3 3/4	6	5	1/4" wide . . . fast finish work on medium sections (3/8"-1/2") of plywood, formica, wood.	
48-42-0520			4	3/8" wide . . . fast finish work on medium to heavy sections (1/2"-3/4").	
48-42-0540		10	5	1/4" wide . . . fast finish work on light sections (1/4") thick of plywood, formica, wood.	
48-42-0560			4	3/8" wide . . . fast finish work on light to medium sections (1/4"-3/8").	
48-42-0600	3 3/4	6	5	Tight smooth scroll work. No distortion on curves. Saws plywood, formica, decorative veneers, plastics, etc. Thickness to 3/4".	
48-42-0620		10		Same as above to thicknesses of 1/2".	
48-42-0640				Reverse tooth for smooth finish on top surface.	
KNIFE CUTTING . . . High Carbon Steel.					
48-42-0700	2 1/2	—	5	Cuts insulating material, leather, rubber, cardboard, sponge, felt, acoustical tile.	

Ball and Roller Bearings

All-Purpose Electric Hacksaws

AVAILABLE IN TWO SPEED
AND VARIABLE SPEED MODELS

The first powerful, lightweight, portable electric reciprocating saw in a complete unit, the SAWZALL, with its patented mechanism, has proven its ruggedness and versatility for over fifteen years of continuous field use. For Plumbers, Heating and Air Conditioning Contractors, Electricians, Builders, Steel Fabricators, Maintenance Men and Manufacturers. Cuts any shape in wood, plaster, metal, plastics, masonite, builder's transite and other sawable materials ... plunge cuts in wood and other resilient stock ... no starting hole required.

TWO SPEED SAWZALL

This unit is available with two speeds to meet specific cutting requirements. High speed of 2400 strokes per minute for fast sawing of wood or composition materials ... low speed of 1700 strokes per minute for maximum blade life when cutting metals. A 2-speed heavy-duty switch is conveniently located for easy switching to high or low speed as desired.

VARIABLE SPEED SAWZALL

Dial any speed from 1100 thru 2550 strokes per minute. Low speeds for increased blade life in cutting most hard materials and higher speeds for fast sawing of soft woods and composition materials. Control mechanism is full wave rectifier type with components transistorized for long life. Converts AC to DC giving full 115 volt sawing power on all speed ranges.

ACCESSORIES

OFFSET BLADE ADAPTER Catalog No. 48-03-2000 (Same as furnished with each Sawzall). For close quarter sawing. Extra Blade Clamp and Blade Clamp Screw included.

WRENCH, SCREW AND CLAMP KIT

Catalog No. 49-22-5080 consists of 10 blade clamp screws, 2 blade clamps and 2 socket wrenches.

WRENCH AND SCREW KIT

Catalog No. 49-22-5050 consists of 25 socket wrenches and 50 blade clamp screws.

SAWZALL BLADE CARD

Catalog No. 49-22-1120 consists of one each of 48-00-(1011, 1023, 1031, 1041, 1064 and 1121) for wood, and 48-00-(1102, 1162, 1171, 1174 and 1182) for metal — a total of 11 blades.

ECONOMY BLADE ASSORTMENT

Catalog No. 49-22-1080

A special package value includes 45 Sawzall Blades of 18 most popular types for cutting wood or metal. Consists of five each catalog Nos. 48-00-(1063, 1064, 1174); three each 48-00-(1061, 1102, 1183); two each 48-00-(1023, 1024, 1041, 1051, 1062, 1103, 1121, 1141, 1173); one each 48-00-(1031, 1002, 1012).

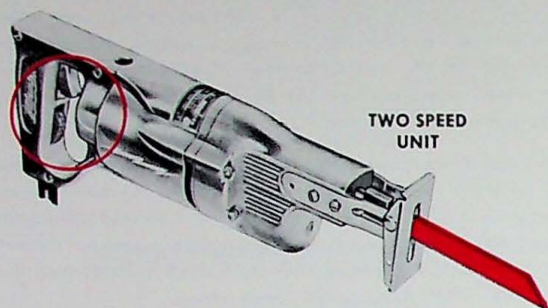
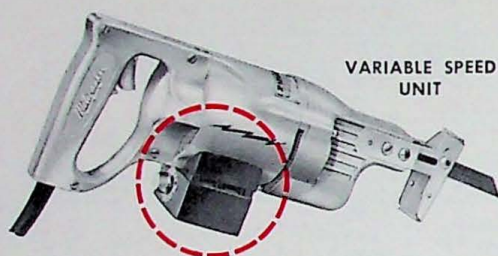
MISCELLANEOUS

Blade Clamp Wrench
Steel Carrying Case

Catalog No. 49-96-0070
Catalog No. 48-55-1550

Type "A" Grease for Gear Case ½ lb. can **Catalog No. 49-08-0500**
1 lb. can **Catalog No. 49-08-0800**

Type "B" Grease for Mechanism ½ lb. can **Catalog No. 49-08-0600**
1 lb. can **Catalog No. 49-08-0900**

TWO SPEED
UNITVARIABLE SPEED
UNITAVAILABLE
WITH OR WITHOUT
STEEL CARRYING
CASE

SPECIFICATIONS

115 volts AC-DC

Catalog No.	Length of Stroke	Overall Length (Inches)	Net Wgt. (lbs.)	Shp. Wgt. (lbs.)
Two Speed Unit — 2400 and 1700 Strokes Per Min.				
6510 with case	¾"	14½"	6¾	18
6530 less case				10
Variable Speed Unit				
1100 to 2550 Strokes Per Minute				
115 Volt 60 Cycles AC Only				
6505 with case	¾"	14½"	7	18

Standard equipment includes Sawzall Blade Card 49-22-1120 for wood and metal — total of 11 blades. Also included are Offset Blade Adapter, socket wrench, extra blade clamp and screw.

RECIPROCATING MECHANISM



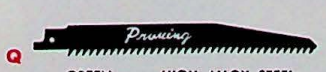
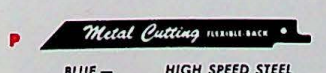
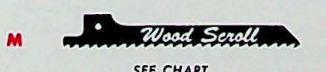
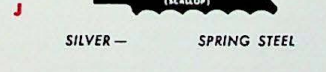
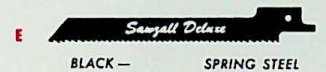
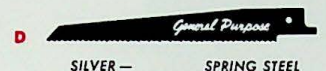
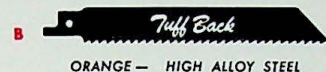
A simple and rugged mechanism built to stand large thrust loads in equal amount from either direction. Only three major moving parts. Heavy-duty bearings of the highest quality.

SAWZALL BLADES

• Custom Milled Teeth, Set and Hardened for Maximum Performance at the Exact Speed of the Sawzall.
• Tong Designed to Secure Blade in Blade-Clamp at the Proper Angle for Maximum Cutting Efficiency.

25

**Use Only
GENUINE
SAWZALL BLADES**



Type	Key	Catalog No.	Teeth per Inch	Lgth. (In.)	Recommended for Cutting	Quant. per Box
Roughing-In Blades, Wood and Plaster	A	48-00-1001	3	3 1/2	Nail free woods . . . fastest cutting . . . fully hardened to withstand roughest sawing. Teeth, fleam sharpened to shear, not tear wood fibers. Canted shank provides for faster feed, deeper cut and ideal return stroke clearance.	10
		48-00-1002		6		10
		48-00-1003		12		5
	B	48-00-1011	6	3 1/2	Nail embedded woods and composition materials . . . 12" blade affords flexibility for flush cutting.	10
		48-00-1012		6		10
		48-00-2011	10	3 1/2	For all woods . . . nail embedded woods, composition materials and light gauge non-ferrous metals.	5
		48-00-1013		6		10
		48-00-1014	18	6	Nail embedded woods . . . for opening crates, boxes, removing wood siding and shingles.	10
		48-00-2012		12		5
	C	48-00-1021	6	3 1/2	All woods including nail-embedded woods. Hardened and tempered to resist bend or twist. Even after severe twist, blade springs right back to its original shape.	5
		48-00-1022		6		5
		48-00-1023	10	3 1/2	General roughing-in work in wood and nail embedded woods.	5
		48-00-1024		6		5
	D	48-00-1031	7	6	Wood cutting . . . shear tooth design . . . fleam sharpened for shearing action . . . very fast cutting, long blade life.	5
		48-00-1032		12		3
	E	48-00-1041	6	6	For plaster, plaster with metal lath, plasterboard. Cuts on both forward and backward stroke.	4
		48-00-1042		12		10
	F	48-00-1051	5	3 1/2	For nail-free woods, plywood, asbestos and fiberboard . . . A general purpose economy type blade.	10
		48-00-1052		6		10
Specialty Blades	G	48-00-1061	6	3 1/2	Nail embedded woods, plywood, insulating board, and asbestos. Blade edge hardened.	10
		48-00-1062		6		10
		48-00-1063	10	3 1/2	For nail embedded woods, opening wooden crates or boxes, removing wood siding or shingles. Teeth are fully hardened.	10
		48-00-1064		6		10
		48-00-2064*	18	3 1/2	For light gauge non-ferrous metals.	10
		48-00-1065		6		10
		48-00-1066	24	3 1/2		10
		48-00-2066*		6		10
	H	48-00-1067	24	3 1/2		10
		48-00-1068		6		10
Metal Scroll	I	48-00-1071	Knife	4	Sponge, rubber, leather, felt and other resilient materials.	10
		48-00-1081				10
		48-00-1091				10
Roughing In	J	48-00-1101	14	2 1/2	Corrugated cardboard, laminated fiberglass, tape and sheets, paper, cork and rubber.	10
		48-00-1102*				10
		48-00-1103*				10
Wood Scroll	K	48-00-1111	18	2 1/2	Scroll cutting metals. 14 tooth for 1/8" and over; 18 tooth—18 ga. to 1/8"; 24 tooth—lighter than 18 ga.	10
		48-00-1102*				10
		48-00-1103*				10
	L	48-00-1131	7	4 1/8	Plunge cutting wood and sawing back to a line. Hardened teeth and flexible center permits sawing in close-quarters. High resistance to bending or breaking. Ideal for roughing-in.	5
		48-00-1121				5
		48-00-1151				5
Metal Cutting	M	48-00-1141	7	3 5/8	Sawing intricate shapes and scroll cuts in wood and synthetic structural materials. (1121) a carbon steel economy blade (Gray) (1151) a high speed steel Deluxe blade (Black).	10
		48-00-1141				10
		48-00-1141				10
	N	48-00-1201	6	3 5/8	Rough cutting irregular contours in wood, fiberboard, asphalt and asbestos. Spring steel blade. (Silver).	5
		48-00-1202*				5
		48-00-1202*				5
	O	48-00-1161	10	3 5/8	High speed steel, hollow ground . . . De Luxe type . . . for fast, smooth finish scroll cuts in wood, plastics, formica and fiberglass. (Silver with black shank).	10
		48-00-1162				10
		48-00-1162				10
	P	48-00-2175	10	8	Cast iron, steel or copper pipe to 4" dia., and also metal decking materials.	5
		48-00-1171				10
		48-00-1172				10
Pruning	Q	48-00-1179	14	2 1/2	Metal heavier than 1/8" thick, angles, bar stock, hard rubber and fiber.	10
		48-00-1179				10
		48-00-1179				10
	R	48-00-1173*	18	2 1/2	Heavy gauge metals, conduit, pipe, channels and tubing.	10
		48-00-1174*				10
		48-00-2170*				10
	S	48-00-1175*	24	2 1/2	Metals lighter than 18 gauge sheet, trim and tubing.	10
		48-00-1176*				10
		48-00-2171*				10
	T	48-00-1177	32	2 1/2	Very light gauge metals . . . sheet trim and tubing.	10
		48-00-1178				10
		48-00-1178				10

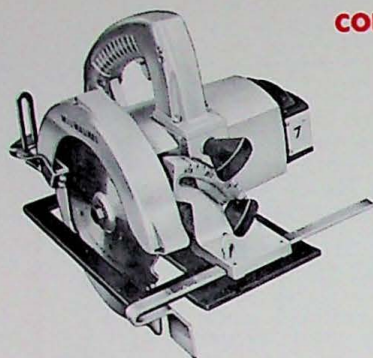
• All blades have teeth set to cut on up stroke except blades 48-00-1202, 48-00-2064 and 48-00-2066. These 3 blades have teeth set to cut on down stroke and are recommended when sawing veneers or plywood to prevent splintering on the finish side.
★ Some varieties of stainless steel can be cut with these blades.

SOLD IN BOX LOTS ONLY — SEE QUANTITY PER BOX COLUMN

CIRCULAR SAWS

Powerful • Rugged • Dependable
Built for Continuous Use

CONTRACTOR SAWS



CONTRACTOR SAWS

1 1/3 HP

6 1/2" and 7" MODELS

SPECIAL FEATURES

- Only 10 1/2 lbs. • 2 Position Switch Control • Ball and Roller Bearings • Quick, Accurate Miter Adjustments • Cut 2" Dressed Lumber at 45° • Wide, Sturdy Wrap-Around Shoe • Carpenter Square Construction • Enclosed, Dustproof Switches • Telescoping Guard with Snap-Back Action.

The best lightweight Saws ever built for the contractor. Handle easily in any position with ideal visibility for fast, accurate sawing. Helical-cut hardened steel gears for smooth operation. Balanced handle control with top trigger switch for fast cut-off work and back trigger for longer reach.

115 volts AC-DC

SPECIFICATIONS

5/8" Arbor

Blade Size	Catalog No.	No load Speed (RPM)	Depth of Cut at 90°	Max. Depth of Cut at 45°	Net Wgt. (lbs.)
6 1/2"	6292 with case 6293 less case	5600	0 to 2 1/8"	1 3/4"	10 1/2
7"	6330 with case 6331 less case	5400	1/4 to 2 3/8"	1 7/8"	10 1/2

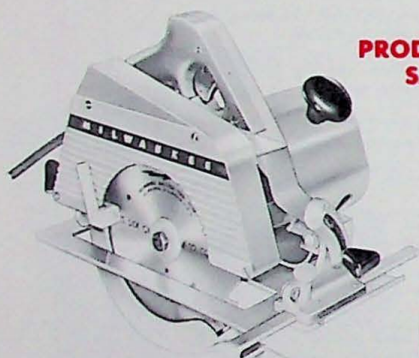
Shp. Wt. with case 25 lbs., less case 16 lbs.
Standard Equipment Includes Combination Saw Blade, Rip Guide and 2 Utility Wrenches.

Exclusive

Contractor Saws and Production Saws have a spring-loaded clutch drive to protect gears against backlash and wear. More than doubles gear life.



PRODUCTION SAWS



13/4 HP

IN 3 POPULAR BLADE SIZES

6 1/2" 7 1/4" 8 1/4"

SPECIAL FEATURES

- Powerful Motor Delivers 1 3/4 H.P. Output • Ball and Roller Bearings • Clear View Line Sighting • One Piece Wrap-Around Shoe for Rigid Support • Safe Telescoping Guard with Snap-Back Action • Carpenter Square Construction • Simple Miter and Depth Adjustments • Split Handle Design for Easy Access to Electrical Connections.

Designed for reliable year after year performance in heavy construction and industrial maintenance... widely used for sawing heavy hardwood planking and frames for concrete construction. Helical-cut, hardened steel gears for smooth running. Contour handle for balance and ease in handling. Large grease chamber provides maximum lubrication.

115 volts AC-DC

SPECIFICATIONS

5/8" Arbor

Blade Size	Catalog No.	No load Speed (RPM)	Depth of Cut at 90°	Max. Depth of Cut at 45°	Net Wgt. (lbs.)
6 1/2"	6300 with case 6320 less case	6400	0 to 2 5/32"	1 3/4"	14 1/2
7 1/4"	6340 with case 6360 less case	5800	0 to 2 17/32"	2 1/32"	14 3/4
8 1/4"	6380 with case 6400 less case	5100	3/4" to 3 1/32"	2 3/8"	15

Shp. Wt. with case 34 lbs., less case 22 lbs.
Standard Equipment Includes Combination Saw Blade, Rip Guide and 2 Utility Wrenches.

WORM DRIVE SAW



2 HP

7 1/2"

SPECIAL FEATURES

- Wide Race and Oversized Ball Bearings • Large Machined Faces on Motor and Gear Housings Assure Solid Fit • Handles Not Part of Motor Housing • Rigid Steel Wrap-Around Shoe • Fast, Positive Miter and Depth Adjustments • Oil Plug at Side of Gear Case for Easy Fill • Up to 1" Lumber Can Be Used on Either Side of Shoe When Ripping Large Panels.

WORM DRIVE SAW

Motor and worm drive gearing develop 2 H.P. at the blade. Designed for ease of handling with ideal balance. Retractable guard operates efficiently under any condition. Exhaust air directed over gear case keeps saw cool and line of sight clear. Saw equipped with diamond shaped arbor. Adapters available for blades with 5/8" arbor hole.

115 volts AC-DC

SPECIFICATIONS

Diamond Arbor

Blade Size	Catalog No.	No load Speed (RPM)	Depth of Cut at 90°	Max. Depth of Cut at 45°	Net Wgt. (lbs.)
7 1/2"	6370 less case 6371 with case	4400	0 to 2 15/32"	2 1/16"	15 3/4

Shp. Wt. with case 34 lbs., less case 22 lbs.
Standard Equipment Includes Combination Blade, Blade Wrench, Rip Guide and Lubricant.

Exclusive

Hardened and precision ground steel worm meshes with alloy bronze gear for long life and smooth operation under all sawing conditions.



CIRCULAR SAW ACCESSORIES

27

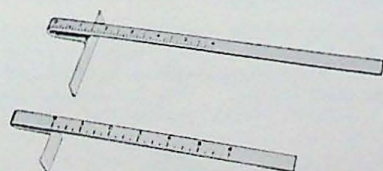
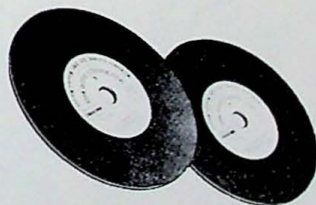
Highest Quality for Best Performance

MILWAUKEE saw blades are made of chrome nickel steel—precision ground, tempered, set and filed. Each blade is perfectly balanced and tensioned for fast, smooth, accurate sawing. Carbide-tipped blades are chrome plated—cut fast and smooth, stay sharp up to 50% longer than steel-tipped blades. Ideal for cutting wood, Transite, Masonite, asbestos, Formica, composition siding and roofing. Abrasive cutting wheels for stone or concrete and metal are safety nylon reinforced—bonded of uniform grit and break resistant.

See Appropriate Table for 5/8" or Diamond Arbor Hole



1. COMBINATION . . . for general sawing. Rip or crosscut without changing blade.
2. CROSSCUT - FLOORING . . . cut hardwoods, flooring and crating fast. Close-set teeth produce smooth finish and hold edge longer when encountering nails.
3. RIP - CUT . . . for high speed production sawing. Hook shaped teeth have alternate set filed square across to cut and not split fibers.
4. PLANER . . . hollow ground to produce fine finish or smooth end grain. Minimizes planing and sanding.
5. PLYWOOD . . . for plywood, wallboard, masonite, light gauge non-ferrous metals, thin plastics. Fine teeth prevent tearing; hold sawdust to minimum.
6. CARBIDE - TIPPED . . . for wood, Transite, Masonite, asbestos, Formica, composition siding, roofing. Chrome plated. Stay sharp up to 50% longer than steel-tipped blades.
7. NON - FERROUS . . . hollow ground for cutting metals such as aluminum, magnesium, copper and brass.
8. ABRASIVE CUTTING WHEELS . . . for stone, concrete and metal. Safety reinforced nylon . . . bonded of uniform grit and break resistant.



RIP FENCES

Catalog No.	For Saws
49-02-0050	R.H. Contractor and Production
49-02-0070	Worm Drive

STEEL CARRYING CASES

When ordered separately

Catalog No. 48-55-1050
For Nos. 6320, 6360, 6400

Catalog No. 48-55-1081
For Nos. 6293, 6331.

Catalog No. 48-55-1100
For No. 6370



BLADE ADAPTERS

Spindle flanges to convert arbors for blades with diamond shaped hole or for 5/8" hole.

To convert diamond arbor to 5/8" arbor on Worm Drive Saw. (Steel blades only)

Inner Adapter
Catalog No. 48-03-2400

Outer Adapter
Catalog No. 48-03-2450
(both required)

To convert 5/8" arbor to diamond arbor on other MILWAUKEE Saws.

Only Inner Adapter required
Catalog No. 48-03-2500

MISCELLANEOUS

Catalog No.	Description
49-48-0050	Protractor
49-96-6300	3/4" Utility Wrench
49-96-6400	1 1/2" Open End Wrench
49-08-0500	1/2 lb. Can "A" Grease
49-08-0800	1 lb. Can "A" Grease
OIL FOR WORM DRIVE SAW	
49-32-0050	1/2 pt. Oil
49-32-0060	1 pt. Oil
49-32-0070	1/2 gal. Oil

FOR PRODUCTION AND CONTRACTOR SAWS WITH 5/8" HOLE

Blade Catalog No.	Blade Diam. (in.)
COMBINATION BLADES	
48-40-1651	6 1/2
48-40-1721	7
48-40-1751	7 1/4
48-40-1821	8 1/4
CROSSCUT - FLOORING BLADES	
48-40-5654	6 1/2
48-40-5724	7
48-40-5754	7 1/4
48-40-5824	8 1/4
RIP-CUT BLADES	
48-40-8653	6 1/2
48-40-8723	7
48-40-8753	7 1/4
48-40-8823	8 1/4
PLANER BLADES*	
48-40-7655	6 1/2
48-40-7660	7
PLYWOOD BLADE*	
48-40-4656	6 1/2
48-40-4657	7
CARBIDE-TIPPED BLADES	
48-40-3650	6 1/2
48-40-3700	7
48-40-3820	8 1/4
NON-FERROUS METAL CUTTING*	
48-40-6659	6 1/2
48-40-6660	7
ABRASIVE CUTTING WHEELS*	
For Stone or Concrete	
49-92-3220	6 1/8" thick
49-92-4310	7 1/8" thick
49-92-5000	8 1/8" thick
For Metal	
49-92-3020	6 1/8" thick
49-92-4300	7 1/8" thick
49-92-5010	8 1/8" thick

*For 6 1/2" thru 8 1/4" Saws.

FOR WORM DRIVE SAW WITH DIAMOND ARBOR HOLE

Blade Catalog No.	Blade Diam. (in.)
COMBINATION BLADE	
48-40-1652	6 1/2 40 tooth
48-40-1761	7 1/2 20 tooth
48-40-1762	7 1/2 40 tooth
CROSSCUT - FLOORING BLADE	
48-40-5764	7 1/2
RIP-CUT BLADE	
48-40-8763	7 1/2
CARBIDE-TIPPED BLADE	
48-40-3750	7 1/2
ABRASIVE CUTTING WHEELS	
For Stone or Concrete	
49-92-4370	7 1/8" thick
For Metal	
49-92-4380	7 1/8" thick

POWER MITER TABLE

Miter Cuts • Square Cuts • Rip Cuts

Makes Finished Miters and Square Cuts on All Trim Mouldings in Wood and Non-Ferrous Metals.

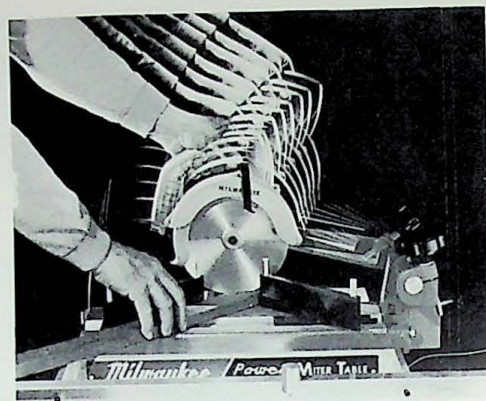


Does for finish carpentry what circular saws do for roughing.

CATALOG NO.
6455
(Less Saw)

Fast Disassembly
For Compact
Easy Portability

**LIGHTWEIGHT
ONLY 45 LBS. WITH SAW**



FAST • SMOOTH • ACCURATE

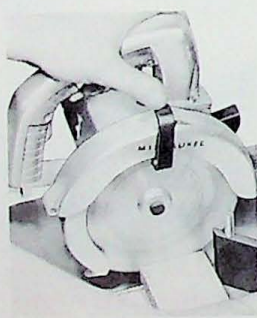
The MITER TABLE is specifically designed for use with MILWAUKEE 7" Contractor Saw, Model 6331. Makes any protractor cut. Obsolete hand miter box. Fast chop-cutting action produces satin-smooth, accurate miters or square cuts in seconds. Makes all inside and outside miter cuts... up to $3\frac{3}{8}$ " base. Material held stationary while saw blade is brought down thru the work. Undercuts... removes back wood. Shave cuts up to $1/100$ of an inch. Rip cuts. Adjustment knobs for depth, width and locking. Table Extension supports long material. Lightweight for easy room to room portability. Disassembles quickly into compact package for carrying. MILWAUKEE Saws Cat. Nos. 6293, 6331 already in the field are adaptable to Miter Table.



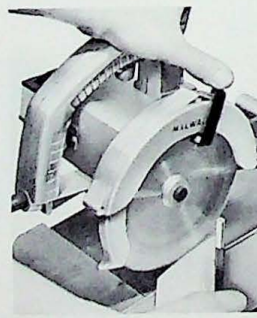
Fast chopping action of counterbalanced saw and special Miter Table saw blade produce smooth, accurate splinter-free edges.



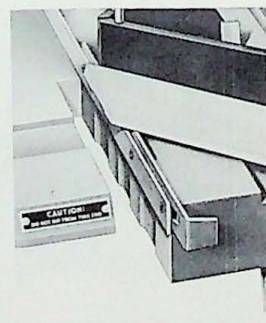
Miter Cuts — makes all inside and outside miters in seconds. Cuts up to $3\frac{3}{8}$ " base. Machined protractor slot for odd angle cuts.



Square Cuts — no adjustment necessary for changing from 45° to 90° . Cuts up to $5\frac{1}{4}$ " jams. Saw locks in position for ripping.



Shave Cuts — permits precise shave cuts for tight fitting miter joints and square cuts... minimizes block planing.



Undercuts — built-in self-locking undercut slide bar for removing backwood. Pulling slide bar forward locks it in position.



SPECIAL BLADES FOR POWER MITER TABLE

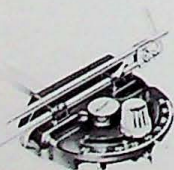
CIRCULAR SAW BLADES WITH $5/8$ " HOLE

Blade Catalog No.	Blade Diam. (in.)
FOR WOOD	
48-40-7660	7
48-40-7655	$6\frac{1}{2}$
FOR NON-FERROUS METAL	
48-40-6660	7
48-40-6659	$6\frac{1}{2}$

PROTRACTOR

Catalog No.
49-48-0070

For use with Miter Table. Aluminum die cast body. $\frac{3}{4}$ " x $\frac{3}{8}$ " x 16" Bar. 30° to 90° adjustment with stops at 45° and 90° . Range 120° .



SPECIFICATIONS

Miter* Table (Less Saw)	Catalog No.	Blade Dia.	Speed RPM	Table Top	Height To Top	Net Weight	Shp. Weight
Contractor's Saw	6455	—	—	$16\frac{1}{2}$ x 18	$31\frac{1}{2}$	35	39
	6331	7"	5400	—	—	$10\frac{1}{2}$	16

* Order Saw and Miter Table separately. Standard Equipment furnished with Miter Table includes special 7" Miter Table Saw blade for wood. For complete saw specifications see page 26.

ORBITAL SANDER

For

- Carpenters • Cabinet Makers • Boat Builders
- Furniture Manufacturers • Woodworkers

29



ONLY
5 LBS.



Available
With or Without
Steel Carrying
Case

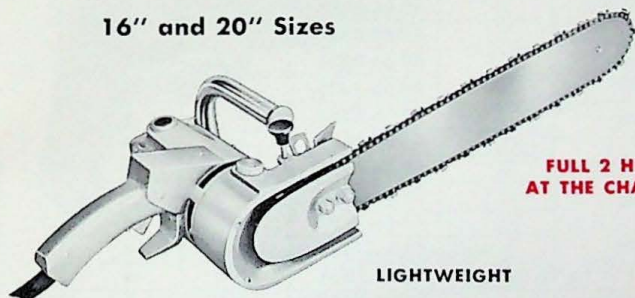
DIRECT DRIVE
NO GEARS OR BELTS

HIGH SPEED . . . 10,000 ORBITS PER MINUTE

For fast, high production, satin-smooth finishing of wood, metal or plastics. Sands thin veneers without scoring, burning or tracking — no swirl marks. Lightweight for ease in handling overhead, vertically, on edges, in corners, contours or on offset surfaces. Compact design only 5 3/4" high with no protruding parts to interfere with working surface. Powerful oversize Milwaukee Built Motor. Multiple blade fan draws air around every part for cooler operation. Mechanism counter-balanced to prevent vibration. Heavy-duty 2-pole, thumb-slide switch. Three grease sealed, precision ball bearings — No further lubrication required.

ELECTRIC CHAIN SAWS

16" and 20" Sizes



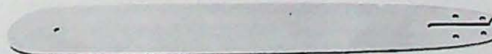
FULL 2 HP
AT THE CHAIN

LIGHTWEIGHT

ALL BALL BEARINGS

- Most powerful Electric Chain Saw of its size.
- Flush cuts . . . no housing or bolt overhang.
- Large sawdust and chip removal port.
- Plunger-type chain oiler. One pint capacity.
- Instant start even in freezing temperatures.
- No fuel . . . No fire hazard.
- Quiet, smooth, electric motor.

ACCESSORIES



GUIDE BARS

Catalog No.	Description
48-09-5000	16" GuideBar
48-09-5100	20" Guide Bar
48-58-0050	16" Chipper Chain
48-58-0070	20" Chipper Chain
49-17-0100	File and Holder (For use with 3/8" pitch chain)
49-22-3000	Chain Replacement Kit (For use with Chipper Chain) Includes tie straps and drive link.
49-96-6200	Chain Saw Wrench
49-08-0500	1/2 lb. Type "A" Grease
49-08-0800	1 lb. Type "A" Grease



FILE
AND
HOLDER

SPECIFICATIONS

Catalog No.	Orbits Per Min.	Dia. of Orbit	Over-all Size			Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
			Length	Width	Height		
WITH FELT PAD							
6000 Less Case	10,000	1/8"	10 1/4"	3 3/8"	5 3/4"	5	9
6001 With Case							13
WITH RUBBER PAD							
6002 Less Case	10,000	1/8"	10 1/4"	3 3/8"	5 3/4"	5	9
6003 With Case							13

Standard Equipment Includes a Package of 10 Assorted Sheets of Sandpaper. Catalog No. 49-37-0010.

ACCESSORIES

SANDPAPER

Aluminum-Oxide Open Coat Production Paper.
Size 3 3/4" x 9", 1/3 of Standard 9" x 11" Sheet.

Catalog No.	Grit	Grade	Sheets Per Pkg.
49-37-0050	50	Coarse	10
49-37-0080	80	Medium	10
49-37-0120	120	Fine	10
•49-37-0010 (Assortment)	50 80 120	Coarse Medium Fine	10 Assorted

•Same as Furnished With Each Orbital Sander.

STEEL CARRYING CASE

Cat. No. 48-55-0850

CHAIN CUTTING SPEED 2000 FT. PER MINUTE

Ruggedly built, fast cutting Chain Saw with functional housing proportioned for best balance. Grip handles located for easy handling in any position. Dustproof trigger switch. Tempered steel Guide Bar with uniform hardness and straight rail for friction-free chain travel. 3/8" pitch Chipper Chain for all-around cutting. Recessed chain and guide bar adjustment. Cleats provide fulcrum for feeding into work.

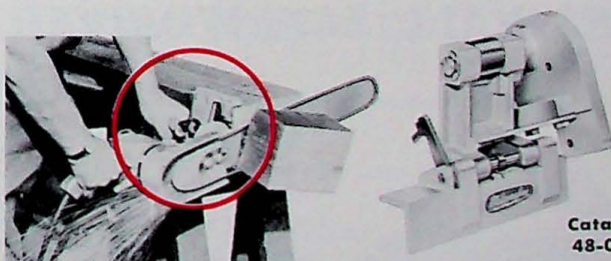
SPECIFICATIONS

Catalog No.	Bar Length	AC/DC Volts	H.P. At The Chain	Cutting Speed Ft./Min.	Net Wt. Lbs.	Shp. Wt. Lbs.
6200	16"	115	2	2000	17 1/2	24
6201	20"				18 1/2	26

Standard Equipment Includes Chipper Chain and Wrench.

SQUARE-CUT UNIT for use with MILWAUKEE CHAIN SAWS

For Contractors, Bridge Builders, Lumber Yards,
Railroad Shops and Industry



Catalog No.
48-08-0100

- Economical . . . Efficient . . . Practical
- Fast . . . Accurate . . . Easy to use.
- Mounts easily to holes in gear case.
- Double spring action allows full cutting capacity.

Milwaukee Chain Saws can be converted for square or angle cutting heavy beams up to 14" x 16" or gang cutting 4" x 12"s, 4" x 4"s and 6" x 8"s. The Square-Cut Unit fastens securely to the edge of the lumber to assure smooth, effortless sawing action through a complete cut. Net weight 2 1/4 lbs. (With Chain Saw only 20 lbs.) The unit is quickly adapted to all Milwaukee Chain Saws whether new or already in use.

SPECIAL SCREWDRIVERS

For Driving Up To 1/4" Self-Drilling, Self-Tapping Tek® Fasteners
Capacity - Up to 3/8" Thick Cold Rolled Steel

Ball and Roller Bearings



**WITH POSITIVE
DRIVE CLUTCH**

CATALOG NO. 6796-1 REVERSING

Specifically engineered for fast, precision driving of self-drilling, self-tapping fasteners in steel, brass, bronze, aluminum and stainless. Also for fastening wood or other compressible materials to metal. Positive clutch engages when pressure is applied. Driving action stops and clutch disengages when pressure is released or when locator contacts work surface. Clutch jaws are milled at precise angles, assuring positive driving action. Depth control is adjustable in increments of 1/64" from outside of tool.



**WITH ADJUSTABLE
TORQUE CLUTCH**

CATALOG NO. 6781-1 REVERSING

A completely new concept in driving self-drilling, self-tapping fasteners. Built especially for fastening metal to metal, working in close quarters, or on uneven surfaces or areas where socket extensions are required. Clutch is easily and externally adjustable to uniform predetermined driving torque. After hole is drilled, clutch remains engaged without heavy pressure. Clutch disengages and driving action stops when pre-set torque is reached. An easily interchangeable clutch collar for fast driving of small screws through light gauge and non-ferrous metal is available.

For Steel Carrying Case
See page 8

SPECIFICATIONS

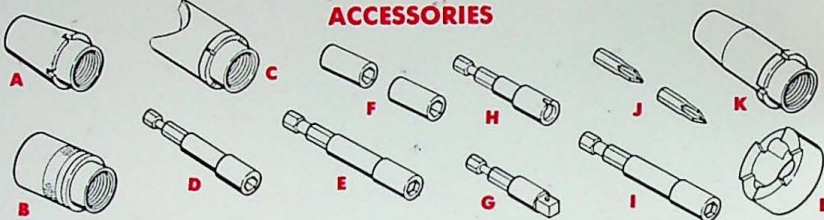
Catalog No.	RPM No Load	Volts	Bit Shank Size	Spindle Offset	Lgth. (ins.)	Net Wgt. lbs.	Shp. Wgt. lbs.
6796-1 Reversing★	2500	115	1/4" Hex	3/4"	9 1/2	3 3/4	7
6781-1 Reversing★					10 1/2	4 1/4	

For standard equipment see footnote ▲ under accessory table below.

★60 cycle AC only.

TEKS® registered trade mark of Illinois Tool Works Inc.

ACCESSORIES



Key	Description	Size	Catalog No.	For Use With	
				6796-1	6781-1
A	Locator Sleeves	1/4"	49-26-0010	▲	
		5/16"	49-26-0020	▲	
		3/8"	49-26-0030	▲	
		★	49-26-0040	▲	
		5/16" †	49-26-0110	●	
B		3/8" †	49-26-0100	●	
C					
D	One Piece Socket Extension Non-Magnetic	1/4"	49-66-3005	▲	▲
		5/16"	49-66-3015	▲	▲
		3/8"	49-66-3025	▲	▲
E	One Piece Socket Extension Magnetic	1/4"	49-66-3006	●	●
		5/16"	49-66-3016	●	●
		3/8"	49-66-3026	●	●
F	Sockets Only Non-Magnetic	1/4"	49-66-3001	●	●
		5/16"	49-66-3011	●	●
		3/8"	49-66-3021	●	●
	Sockets Only Magnetic	1/4"	49-66-3000	●	●
		5/16"	49-66-3010	●	●
		3/8"	49-66-3020	●	●
G	1/4 Sq. Driver 2" Lg. for Sockets		48-32-2050	●	●
H	Insert Bit Holder Non-Mag.		48-32-3050	▲	▲
I	Insert Bit Holder Magnetic		48-32-3025	●	●
J	Phillips Insert Bits	No. 2	48-32-1050	▲	▲
		No. 3	48-32-1070		
K	Locator Sleeve for Magnetic Bit Holder		49-26-0050	●	
L	Clutch Collar for Driving Small Screws in Non-Ferrous Metals		48-68-0100		●

★For Washer-Head Screws.

†For Corrugated Metal or Restricted Areas.

▲Furnished with Model Indicated.

●Accessory for Model Indicated.

DRYWALL SCREWDRIVER

Ball and Roller Bearings



**WITH POSITIVE
DRIVE CLUTCH**

CATALOG NO. 6746-1 REVERSING

For Steel Carrying Case
See page 8

Minimum Offset for Close Quarter Work Simple, Positive, Depth Adjustment

For driving screws flush or "dimple sinking" when installing panels on metal or wood studs. Drives to exact depth without marring or damaging panels — makes cementing and final finishing easier. Magnetic bit holder holds drywall screws to insert bit. Reversing switch allows easy removal of screws. Positive lock adjustment provides a wide range of depth settings. Accurately adjustable in increments of 1/64" through a simple spring-loaded collar and slotted knurled locator sleeve. Draw back collar and rotate locator sleeve for desired driving depth.

SPECIFICATIONS

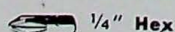
Catalog No.	RPM No Load	Volts	Bit Shank Size	Spindle Offset	Lgth. (ins.)	Net Wgt. lbs.	Shp. Wgt. lbs.
6746-1 Reversing★	2500	115	1/4" Hex	3/4"	10 1/4	4	7

★60 cycle AC only.

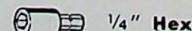
Magnetic Bit Holder and No. 2 Phillips Insert Bit are furnished as standard and are also available as accessories listed below.



MAGNETIC BIT HOLDER
Catalog No. 48-32-3025



PHILLIPS INSERT BITS
#1 Cat. No. 48-32-1030
#2 Cat. No. 48-32-1050



INSERT SOCKETS
Non Mag. Cat. No. 49-66-0750
Magnetic Cat. No. 49-66-0800

SCREW DRIVERS - NUT RUNNERS

Ball and Roller Bearings

31

FOR FAST, ECONOMICAL DRIVING IN WOOD, PLASTICS AND METAL

POSITIVE DRIVE CLUTCH MODELS



Single Speed Unit
Catalog Nos.
6541-1 and 6571-1



With Trigger Speed Control
Catalog No. 6542-1

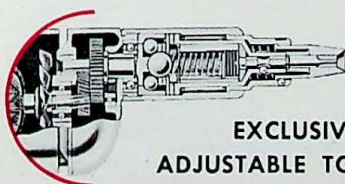
ADJUSTABLE TORQUE RELEASE CLUTCH MODELS



Single Speed Unit
Catalog No.
6581-1



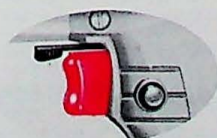
With Trigger Speed Control
Catalog No. 6582-1



OUTSTANDING FEATURES

EXCLUSIVE AND PATENTED ADJUSTABLE TORQUE RELEASE CLUTCH

A unique anti-friction ball clutch mechanism eliminates a second set of jaws and provides smooth running and long life. A single spring holds the jaw clutch apart and puts tension on the ball clutch which remains engaged until the screw, bolt or nut is set. Clutch cushions impact ... no jolt to operator or damage to fasteners.



TRIGGER SPEED CONTROL REVERSING SWITCH

Complete operating speed control in forward and reverse is provided for models 6542-1 and 6582-1 by this solid state speed control reversing switch. Increased

speed control reversing switch. Increasing or decreasing pressure on the trigger controls the amount of drilling or reversing speed from zero to maximum RPM. Reversing lever, located directly above trigger, is provided with a mechanical interlock to prevent accidental reversing when motor is running.

ALL WITH LEXAN® PISTOL GRIP HANDLES

Positive Clutch Drive Units are compact, lightweight and powerful for use in wood and other resilient materials where there is a varied resistance in density and hardness. Clutch engages when pressure is applied and stops when pressure is released. Uniform torque is maintained while pressure is applied.

Adjustable Torque Drive Units are rugged, dependable drivers for machine and sheet metal screws or nuts. Clutch tension can be preset to any driving torque. Once adjusted, uniform tension is maintained when driving screws or nuts of the same size in materials of uniform density. Clutch automatically disengages when screw or nut is set.

SPECIFICATIONS

60 Cycle AC Only.

Catalog No.	Speed rpm No Load	Bit Shank Size	Spindle Offset	Lgth. (In.)	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
POSITIVE DRIVE Wood Screws 4 to 12.						
6541-1 Rev.	650	1/4" Hex	3/4"	9 1/4	4 1/2	7
6542-1 Rev.	0 to 650	1/4" Hex	3/4"	9 1/4	4 1/2	7
6571-1 Rev.	1750	1/4" Hex	3/4"	9 1/4	4 1/2	7
ADJUSTABLE TORQUE Machine Screws and Nuts to 1/4".						
6581-1 Rev.	650	1/4" Hex	3/4"	10 1/4	4 1/2	7
6582-1 Rev.	0 to 650	1/4" Hex	3/4"	10 1/4	4 1/2	7

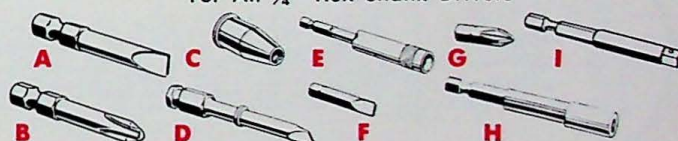
NOTE: (Rev.) following Cat. No. indicates reversing motor. All models have lockable trigger switches.

STANDARD EQUIPMENT

Included with all models above are (3) 1/4" hex shank bits 1 1/8" long - Nos. 48-30-0500, 0505, 0510; finders Nos. 48-30-2025, 2050, 2075 and 1/4" square socket driver 48-32-2050.

ACCESSORIES

For All 1/4" Hex Shank Drivers



	For Screw Sizes	Bit Only - 1 1/8" Long Catalog No.	Bit Only - 3 1/2" Long Catalog No.	Bit and Finder 3 1/2" Long Catalog No.
A	6F-8R 8F-10R 10F-12R 12F-14R 14F-16R	48-30-0500 48-30-0505 48-30-0510 48-30-0515	D 48-30-0750 48-30-0770 48-30-0790 48-30-0800 48-30-0805	E 48-30-2600 48-30-2625 48-30-2650 48-30-2675 48-30-2700
B	Phillips No. 2 Phillips No. 3	48-30-1520 48-30-1500		
C	For Screw Sizes	Finders for 1 1/8" Bits Catalog No.	Insert Bits Catalog No.	Insert Bit Holder Catalog No.
	6F-8R 8F-10R 10F-12R 12F-14R 14F-16R	48-30-2025 48-30-2050 48-30-2075 48-30-2100	F 48-32-0050 48-32-0060 48-32-0070 48-32-0080 48-32-0090	H For Insert Bits F and G Magnetic 48-32-3025 Non-Magnetic 48-32-3050
	Phillips No. 2 Phillips No. 3		G 48-32-1050 48-32-1070	
I	1/4" Square Driver 2" long (for sockets) Cat. No. 48-32-2050			

For Steel Carrying Case
See page 8

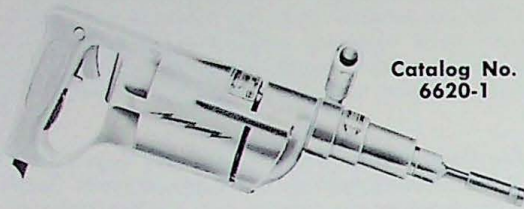
SCREW DRIVERS – NUT RUNNERS

ALL WITH REVERSING MOTORS

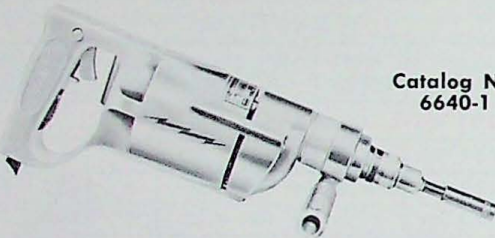
Ball and Roller Bearings

**LARGE CAPACITY DRIVERS
FOR CONTINUOUS PRODUCTION USE**

POSITIVE DRIVE CLUTCH

Catalog No.
6620-1

ADJUSTABLE TORQUE RELEASE CLUTCH

Catalog No.
6640-1

STANDARD EQUIPMENT

Included with each model are (3) $\frac{3}{16}$ " hex shank bits with finders $3\frac{1}{2}$ " long — Nos. 48-30-3250, 3275, 3300 and $\frac{1}{2}$ " square socket driver No. 48-32-2070.

OUTSTANDING FEATURES

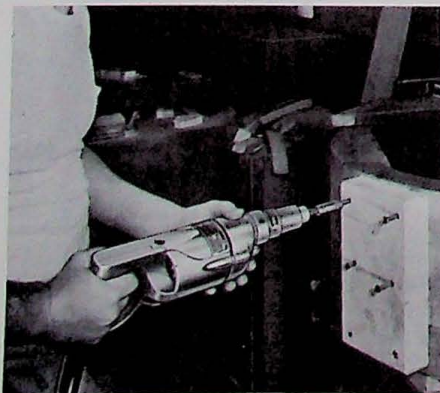


REVERSING MOTORS

The above models are furnished with reversing motors. The switch for reversing is conveniently located within the handle. Makes reversing action simple for the removal of screws, nuts or bolts.

EXCLUSIVE AND PATENTED ADJUSTABLE TORQUE RELEASE CLUTCH

A specially designed ball and clutch mechanism eliminates a second set of jaws. It is anti-friction to provide smooth running and long life. A single spring holds the jaw clutch apart and puts tension on the ball clutch which remains engaged until the screw, bolt or nut is set. Clutch cushions impact. Varied degrees of clutch tension are made by turning knurled collar to the right or left.



Driving No. 14x3" long wood screws flush in this wood core box is done fast, easily and neatly with the MILWAUKEE Model 6620-1 Positive Clutch Screwdriver. Model 6640-1 shown above has the same capacity but with Adjustable Torque Release Clutch for driving screws or setting nuts and bolts in metal or other hard materials.

Positive Clutch Driver — Provides the power and torque to handle No. 10 to 16 wood screws and up to $\frac{3}{8}$ " lag screws 3" long or bolts and nuts No. 10 to $\frac{3}{8}$ ". Clutch engages when pressure is applied and disengages when pressure is released. For wood and other resilient materials which vary in density.

Adjustable Clutch Driver — High torque driver with same capacity as Positive Clutch Driver above but with externally adjustable clutch for constant driving torque in metal or other hard materials. Clutch mechanism permits increasing or decreasing driving torque by turning knurled collar at front of tool. Clutch disengages automatically when screws or nuts are set.

SPECIFICATIONS

All 115 volts AC-DC

Catalog No.	Speed rpm No Load	Bit Shank Size	Spindle Offset	Lgth. (In.)	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
POSITIVE DRIVE						
For Wood Screws 10 to 16.						
6620-1 Rev.	450	$\frac{7}{16}$ " Hex	1"	13 $\frac{3}{4}$	9	11
ADJUSTABLE TORQUE						
For Machine Screws and Nuts to $\frac{3}{8}$".						
6640-1 Rev.	450	$\frac{7}{16}$ " Hex	1"	15	8 $\frac{1}{2}$	11

NOTE: (Rev.) following Cat. No. indicates reversing motor. All models have lockable trigger switches.

ACCESSORIES

For All $\frac{3}{16}$ " Hex Shank Drivers

For Screw Sizes		Bit Only— 3½" Long Catalog No.	Bit and Finder— 3½" Long Catalog No.	
J	8F-10R	48-30-1300	L	48-30-3225
	10F-12R	48-30-1320		48-30-3250
	12F-14R	48-30-1325		48-30-3275
	14F-16R	48-30-1330		48-30-3300
	16F-18R	48-30-1340		48-30-3325
	18F-20R	48-30-1340		48-30-3325
	20F-22R	48-30-1350		48-30-3350
K	Phillips No. 2	48-30-1400		
	Phillips No. 3	48-30-1420		
Insert Bits for Phillips Head Screws				
M	Phillips No.	Catalog No.	N	Insert Bit Holder Catalog No.
	2	48-32-1080		48-32-3070
	3	48-32-1090		For use with insert bits.
	4	48-32-1100		
O	½" Square Driver 3" long (for sockets) Catalog No. 48-32-2070			

SCREW DRIVER-NUT RUNNER UNIT WITH POSITIVE DRIVE CLUTCH



Cat. No. 2930

Converts models 1100, 1100-1, 1200 or 1200-1 MILWAUKEE Heavy-Duty Drills for screw driving or nut running. Unit clamps securely to the forward collar of the drill housing, coupling with the hex spindle of the drill. Standard equipment includes 3 screw driver bits with finders 48-30-3250, 48-30-3275 and 48-30-3300 and one $\frac{1}{2}$ " square socket driver Catalog No. 48-32-2070. Net Wt. 1 $\frac{1}{2}$ lbs. Shp. Wt. 2 $\frac{3}{4}$ lbs.

POLISHERS

7" and 9" Diameters for Production Work

33

Ball and Roller Bearings

With **Exclusive**

SPRING LOADED CLUTCH DRIVE

Assures smooth running—greatly increases gear life—prevents harmful backlash.

Designed for continuous heavy-duty use. Rugged, Powerful—Perfectly balanced.

7" Dia. Cat. No. 5450 Lightweight polisher, 1750 RPM used with standard liquid polishes.

7" Dia. Cat. No. 5530 Lightweight polisher, 2800 RPM for exclusive use with high speed liquid machine polishes.

9" Dia. Cat. No. 5590 More powerful polisher, 1450 RPM. Handles the larger diameter pads and bonnets. Especially recommended for rubbing and compounding.

Furnished with each polisher is a rubber backing pad, polishing pad and one quart of BluShel Polish.



Catalog No.	Description
49-36-2500	7" dia. Moulded Rubber Pad
49-36-2200	8 1/2" dia. Moulded Rubber Pad
49-36-1400	7 1/2" dia. Polishing Pad
49-36-1600	9" dia. Polishing Pad
49-36-0500	7" dia. Lambswool Pad
49-36-0700	9" dia. Lambswool Pad
48-48-0500	7" dia. Lambswool Bonnet
48-48-1000	9" dia. Lambswool Bonnet
49-08-1000	1 lb. Type C Grease

BONNET CLEANING TOOL

Cat. No. 49-80-0050 Quickly fluffs, cleans, buffing pads and bonnets while discs are rotating. Removes glazed surface and loosens packed wool to prolong life. Shp. Wt. 1 lb.



BluShel CAR POLISH

Cleans, polishes, and seals automotive finishes. Leaves a dry, brilliant finish. It is free of harmful chemicals.



Catalog No.	Description	Shp. Wgt. Lbs.
49-43-0050	1 Qt.	3
49-43-0051	12 Qt. Case	33
49-43-0060	1 Gal.	10
49-43-0061	6 Gal. Case	60

SPECIFICATIONS

Catalog No.	Disc Dia.	AC/DC Volts	Speed No Load (RPM)	Lgth. (In.) †	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
5450	7"	115	1750	14 1/2	9 1/4	16
5530	7"	115	2800	14 1/2	9 1/4	16
5590	9"	115	1450	15 1/4	12 3/4	20

† Over-all length of tool only—not including pad.

IMPACT WRENCH

1/2" Square Drive



ONLY 7 lbs.
11 3/4" long

Also Available
In Kit Form With
Steel Carrying Case



SPECIFICATIONS

Catalog No.	Impacts Per Min.	Speed RPM	Torque Range	Volts	Shp. Wt. Lbs.
9050 LESS CASE 9055 KIT*	2000	1800	95/130 ft. lbs.	115	10 21

*Kit contains Impact Wrench in steel carrying case with eight Heavy-Duty Impact Type Hex Sockets in sizes 3/16", 1/2", 3/8", 5/8", 1 1/8", 1 1/4", 1 3/4", and 2". . . one Collet Chuck No. 48-66-0050 capacity 3/16" to 3/8" for round shanks and No. 10 to 1/2" taps or E-Z outs . . . one Quick Change Chuck No. 48-66-0060 for 3/16" Hex Shank Screw Driver Bits . . . Open End Wrench No. 49-96-4680 for Collet Chuck . . . one tube lubricant No. 49-08-0100.

OPEN END WRENCH No. 49-96-4680 Included and used with Collet Chuck No. 48-66-0050

CARRYING CASE ONLY No. 48-55-2575

SPECIAL LUBRICANT No. 49-08-0100
For mechanism—3 1/2 oz. tube.

- Simple, rugged design
- No kickback or twist
- Full power in forward or reverse
- Runs continuously with constant torque
- Light weight — Perfect balance
- No stall, overload or motor burnout

The finest, most powerful impact wrench of its kind on the market for setting, running or removing bolts, nuts, studs and screws . . . also taps, threads, rethreads, drills and reams. Highest quality components include unit thrust bearings for spring and impact mechanism, chrome alloy steel balls and multiple planet gear system. Anvil, hammer and planetary gear cage are forged from selected alloy steel and heat treated for heavy-duty service. Forward and reverse rotation is achieved by turning rear end cap. Brushes shift automatically for best commutation and efficiency. Tool has unbreakable Lexan® handle and end cap, a vinyl boot for ease in handling and 25 feet of cord. A tube of lubricant is supplied.



COLLET CHUCK No. 48-66-0050

For round shank tools, drills and reamers 3/16" to 3/8" diameter . . . also taps and E-Z outs No. 10 to 1/2". Two wrenches are included.



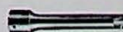
QUICK CHANGE CHUCK No. 48-66-0060

With 3/16" Hex Socket for Screw Driver Bits or other accessories with 3/16" Hex Shanks.



KEYLESS CHUCK No. 48-66-0010

Adapts to 1/2" Square Drive with capacity for accessories with 1/8" to 1/2" diameter shanks.



EXTENSION BAR No. 48-95-5000

Adapts to 1/2" Square Drive. Provides 5" additional length where required for use with sockets or other accessories.

Handles Screw Driver bits with 3/16" Hex Shanks. See Page 32.
Handles Hole Saws to 2" dia. See Page 10.

HEAVY-DUTY IMPACT HEX SOCKETS

Single broached, standard length. Specially made for Impact Wrench. Adaptable to 1/2" Square Drive.

Size	Catalog No.
3/16"	49-66-3070
1/2"	49-66-3080
3/8"	49-66-3090
5/8"	49-66-3100
1 1/8"	49-66-3110
1 1/4"	49-66-3120
1 3/4"	49-66-3130
2"	49-66-3140



UNIVERSAL JOINT No. 48-03-0500

Fits 1/2" Square Drive and used with Hex Sockets to reach difficult places at various angles . . . also allows clearance around obstructions.

SANDER-GRINDERS

Ball and Roller Bearings

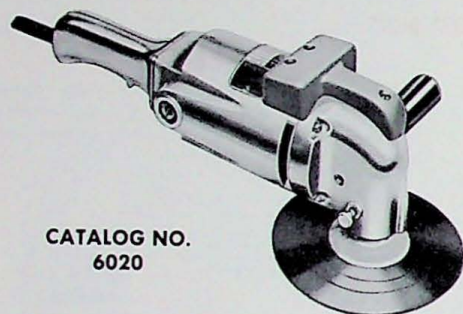
for **HEAVY-DUTY AUTOMOTIVE and INDUSTRIAL USE**
in **7" or 9" Sizes** • All **5000 RPM** • All Full **1½ HP**

... With **EXCLUSIVE**
SPRING LOADED CLUTCH DRIVE

Assures smoother running and prevents harmful backlash shock of heavy or unbalanced grinding wheels to driving mechanism. Greatly increases gear life.

Large fan and exhaust ports direct air over disc, keeps work area free of dust, grit and dissipates heat.

7" DIAMETER



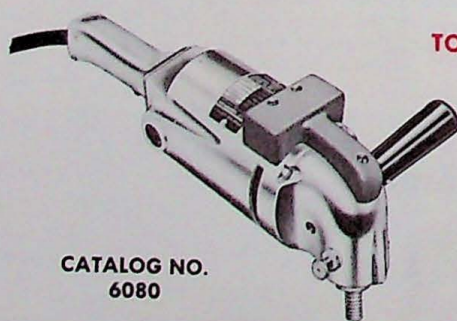
CATALOG NO.
6020

Widely used in auto body shops, garages, by sheet metal fabricators and on farms for sharpening plows and disc harrows. Can be converted from sanding to grinding or wire brushing. Furnished with nested spring steel backing discs of 5" and 7" diameters. One each sample 36 and 60 grit 7" diameter sanding disc included.



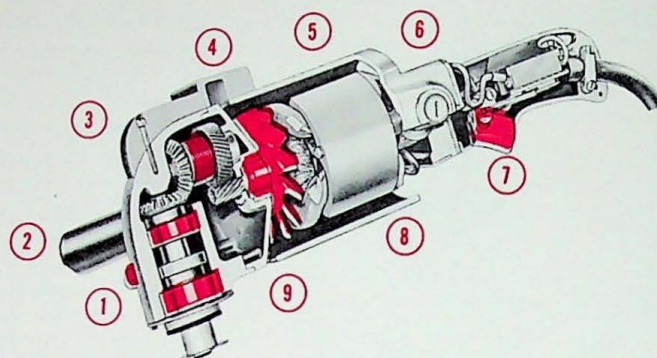
CATALOG NO.
6060

Specially built for continuous duty service in heaviest type of work. High speed and high torque give best performance under maximum load. Furnished with three nested spring steel backing discs of 5", 7", and 9" diameters. One each 36 and 60 grit 9" diameter sample sanding disc included.



CATALOG NO.
6080

The same powerful sander-grinder as catalog No. 6060 less disc assembly, hub, and sanding discs. For use with cup wire brushes and flared cup grinding wheels — available as accessories.



OUTSTANDING FEATURES

- ① **BUTTON-TYPE SPINDLE LOCK** For easy removal when changing discs or other accessories. No special tools required.
- ② **REMOVABLE SIDE HANDLE** For use on either side of grinder.
- ③ **HEAVY-DUTY URETHANE TOOL REST** Absorbs shock . . . prevents damage to housings.
- ④ **OVERSIZE FAN** Directs constant streams of turbulent air over motor for cool, efficient operation.
- ⑤ **LIGHTWEIGHT ALUMINUM ALLOY HOUSING** Functionally styled for perfect balance.
- ⑥ **EXTERNAL BRUSH HOLDERS** Permit inspection and replacement of brushes without disassembling grinder.
- ⑦ **DOUBLE-POLE, DUST-PROOF SWITCH** 100% overload capacity with locking button for continuous running.
- ⑧ **BALL BEARING MOUNTED ROTOR ASSEMBLY** Is dynamically balanced and vibration free.
- ⑨ **ROTOR AND STATOR WINDINGS** Of high, heat-resistance wire, heavily insulated and baked for maximum protection against burnout.



CATALOG NO.
6100

Designed especially for the welder. With the same power and characteristics as Catalog No. 6060 but with 9" x ¼" Flat Rough Reinforced Grinding Disc in place of Nested Spring Steel Backing Pad assembly and Abrasive Sanding Discs. Steel guard No. 49-12-0090 also furnished.

SPECIFICATIONS

Catalog No.	Speed RPM	Disc Dia. (In.)	AC/DC Volts	HP	Spindle Thread Size	Length (Less Disc) Inches	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
6020	5000	7	115	1½	5/8"-11	15½	13	18
6060		9					13¾	18
6080*		—					12¼	17
6100		9					15¼	20

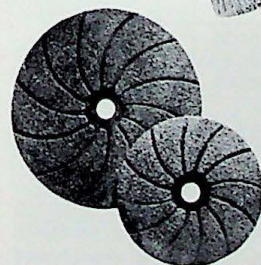
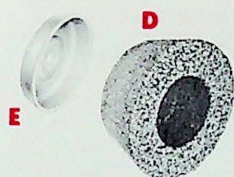
* Less disc assembly and hub.

Highest Quality for Best Performance



FLAT REINFORCED GRINDING DISCS

Strong and tough with high safety factor to permit high speed operation. Nylon reinforced to resist breakage from twisting, starting torque or lateral pressure. All types require Guard "B".



**DISC WHEEL
HUB ADAPTER**

Cat. No. 48-03-1000

For use with depressed center hub wheels with $\frac{7}{8}$ " diameter hole.

DISC TRIMMER

For **ABRASIVE SANDING DISCS**



Catalog No.
49-84-0050

Light, perfectly balanced sander pads provide flexibility for curves and contours. Made up of 3 spring steel discs, 5", 7" and 9" diameters. The 5" disc is integral with a hub and a disc nut holds the assembly on the spindle. By removing the outer disc, the abrasive papers can be trimmed to the next smallest diameter, affording greater economy.

SPECIFICATIONS

Description	Catalog No.
-------------	-------------

ALUMINUM OXIDE DISCS FOR METAL

A	ROUGH	With $\frac{5}{8}$ " - 11 Threaded Hub	7" x $\frac{1}{4}$ "	49-93-3110
	FINISH		9" x $\frac{1}{4}$ "	49-93-3230
			7" x $\frac{1}{4}$ "	49-93-3170
			9" x $\frac{1}{4}$ "	49-93-3290

SILICON CARBIDE DISCS FOR STONE OR CONCRETE

A	$\frac{5}{8}$ " - 11 Threaded Hub	7" x $\frac{1}{4}$ "	49-93-3130
		9" x $\frac{1}{4}$ "	49-93-3250
B	GUARD	Fits 7"	49-12-0080
		Fits 9"	49-12-0090

CURVED REINFORCED GRINDING DISCS

Nylon reinforced curved grinding discs for grinding welds. Contour shape permits easier accessibility to work surfaces. Same high safety factor as flat reinforced grinding discs.

C	ROUGH	With $\frac{5}{8}$ " - 11 Threaded Hub	7" x $\frac{1}{4}$ "	49-93-3120
	FINISH		9" x $\frac{1}{4}$ "	49-93-3240
			7" x $\frac{1}{4}$ "	49-93-3180
			9" x $\frac{1}{4}$ "	49-93-3300
	GUARD		Fits 7"	49-12-0100
			Fits 9"	49-12-0110

FLARED CUP GRINDING WHEELS

D	4" DIA. FOR 7"	$\frac{5}{8}$ " - 11 Thread	49-93-5140
	5" DIA. FOR 9"	$\frac{5}{8}$ " - 11 Thread	49-93-5220
E	GUARD	For 4" Flared Cup	49-12-0060
		For 5" Flared Cup	49-12-0070

ARMOR-CUP GRINDING WHEELS

RESINOID ARMOR-CUP FOR METAL

F	4" DIA. FOR 7"	$\frac{5}{8}$ " - 11 Thread	49-93-5250
	5" DIA. FOR 9"	$\frac{5}{8}$ " - 11 Thread	49-93-5270

SILICON CARBIDE ARMOR-CUP FOR STONE OR CONCRETE

F	4" DIA. FOR 7"	$\frac{5}{8}$ " - 11 Thread	49-93-5260
	5" DIA. FOR 9"	$\frac{5}{8}$ " - 11 Thread	49-93-5280
G	GUARD	For 4" Flared Cup	49-12-0060
		For 5" Flared Cup	49-12-0070

WIRE CUP BRUSHES

H	4" DIA. FOR 7"		
	30 ga. crimped wire	$\frac{5}{8}$ " - 11 Thread	48-52-1300
	24 ga. knot wire	$\frac{5}{8}$ " - 11 Thread	48-52-1350
	6" DIA. FOR 9"		
	24 ga. crimped wire	$\frac{5}{8}$ " - 11 Thread	48-52-1600
	30 ga. knot wire	$\frac{5}{8}$ " - 11 Thread	48-52-1650

ABRASIVE SANDING DISCS

I	FOR 7" DIA.	16 Grit	PACKED AND SOLD ONLY IN BOXES OF 10	48-80-2000
		24 Grit		48-80-2050
		36 Grit		48-80-2100
		60 Grit		48-80-2200
	FOR 9" DIA.	80 Grit		48-80-2250
		16 Grit		48-80-2500
		24 Grit		48-80-2550
		36 Grit		48-80-2600
		60 Grit		48-80-2700
		80 Grit		48-80-2750

EXCLUSIVE . . . NESTED SPRING STEEL BACKING PAD



Description	Dia.	Catalog No.
COMPLETE DISC ASSEMBLY	5"	48-80-0750
	7"	49-36-3100
	9"	49-36-3300
SPRING STEEL DISC	7"	48-80-0900
	9"	48-80-1100

1 LB. TYPE C GREASE Cat. No. 49-08-1000

PORTABLE GRINDERS

Three Models Available
4" • 5" • 6" Wheel Sizes

ALL BALL
BEARINGS

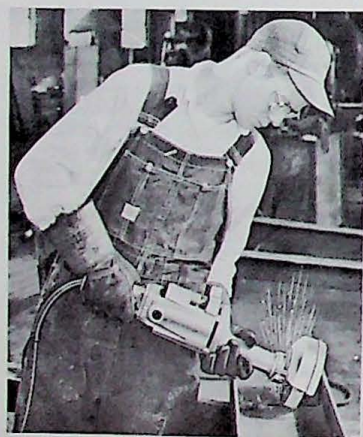


CATALOG No.
5220

Outstanding Features



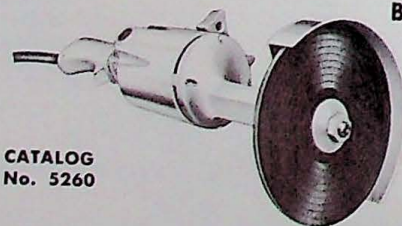
- ① Lightweight Aluminum Alloy Housings
- ② Heavy-Duty MILWAUKEE-BUILT MOTOR
- ③ Adjustable, Shatterproof Steel Guard
- ④ Fully Enclosed Dustproof Switch
- ⑤ Helical-Cut Alloy Steel Gears and Shafts
- ⑥ Double Row Oversize Ball Bearings



MILWAUKEE Heavy-Duty Portable Grinders are engineered to give rugged, dependable, trouble-free performance. Here, in this steel fabricating shop, the operator is grinding off welds using 6" model 5240. Ideal balance of the unit makes it easy to handle and reduces fatigue through long periods of use.

TUCK POINT GRINDER

ALL BALL
BEARINGS



CATALOG
No. 5260

Outstanding physical features for the Tuck Point Grinder are the same as noted above for Portable Grinders.

Kits and abrasive wheels are adaptable to Portable Grinders Nos. 5220 and 5240.

POWERFUL, HIGH TORQUE GRINDERS

For use in welding shops and heavy industry — prepares surfaces for welding, smooths welds, removes burrs, snags and grinds castings — also for wire brushing, buffing and general grinding. Ruggedly built for continuous service — lightweight and balanced to permit long periods of use. Oversize double row ball bearings provide rigid support for grinding wheel. High velocity air flow keeps motor cool and free of dust and grit. Equipped with adjustable steel wheel guard and coarse grinding wheel. Hinged face plate on guard for quick wheel replacement.

SPECIFICATIONS

Catalog No.	Wheel Size	Hole Dia.	Speed No Load (RPM)	Volts	Lgth. (In.)	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
5200	4" x 1"	1/2"	6000	115	21 3/8	13 1/2	19
5220	5" x 1"	5/8"	4000	115	21 3/4	15	19
5240	6" x 1"	5/8"	4000	115	22	16 1/2	22

ACCESSORIES

COARSE GRIT GRINDING WHEELS

Catalog No.	Size (In.)	Hole Dia.
49-92-1140	4 x 1	1/2"
49-92-2240	5 x 1	5/8"
49-92-3260	6 x 1	5/8"

CRIMPED WIRE BRUSHES

30 ga. crimped steel wire. For cleaning steel surfaces and castings, removing rust, scale, file marks.

Catalog No.	Dia. (In.)	Hole Dia.
48-52-2200	4	1/2"
48-52-2300	5	5/8"
48-52-2500	6	5/8"

CLOTH BUFFING WHEELS

For polishing and buffing metal surfaces. Coated with abrasive, can be used for smooth finish grinding or rough polishing.

Catalog No.	Dia. (In.)	Hole Dia.
49-93-0060	4	1/2"
49-93-0070	5	5/8"
49-93-0090	6	5/8"

1 lb. can Type C Grease.
Cat. No. 49-08-1000

8" Diameter Wheel

Powerful, high speed, easy handling grinder for fast clean removal of old or loose mortar. Furnished with 8" x 1/8" abrasive wheel and steel wheel guard for safe operation. All ball bearings — double row ball bearings in forward handle housing provide rigid support for grinding wheel. Comfortable grip.

SPECIFICATIONS

Catalog No.	Wheel Size	Hole Dia.	Speed No Load (RPM)	Volts	Lgth. (ins.)	Net Wgt. lbs.	Shp. Wgt. lbs.
5260	8" x 1/8"	5/8"	4000	115	21	15 1/4	19

TUCK POINT GRINDER ACCESSORY KITS

Cat. No. 49-22-6050 Includes wheel guard, spacer unit and 8" x 1/8" x 5/8" hole abrasive wheel.

Cat. No. 49-22-6060 Same as above kit except with 8" x 3/16" x 5/8" hole abrasive wheel.

TUCK POINT ABRASIVE WHEELS

Cat. No. 49-92-5020 8" x 1/8" x 5/8" hole.

Cat. No. 49-92-5040 8" x 3/16" x 5/8" hole.

Cat. No. 49-92-5060 8" x 1/4" x 5/8" hole.

1 lb. can Type C Grease. Cat. No. 49-08-1000

BENCH GRINDERS

AVAILABLE IN 5 SIZES 1/4 • 1/3 • 1/2 • 3/4 • 1 HORSE POWER

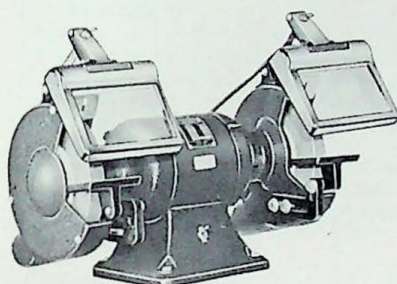
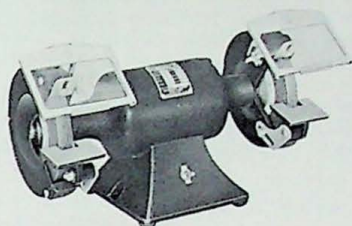
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ALL BALL BEARINGS



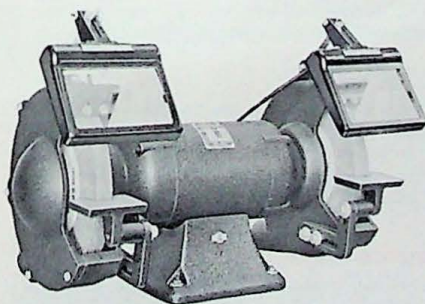
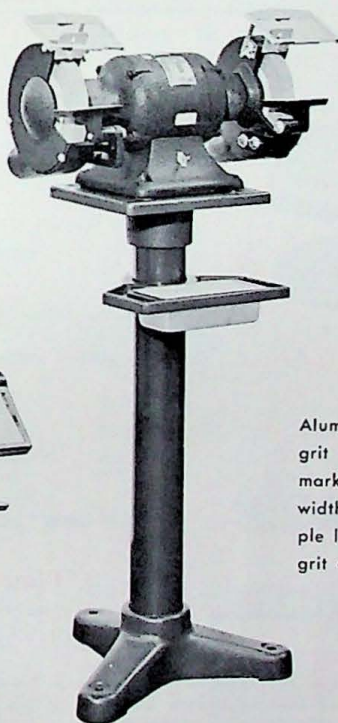
1/4 H.P.
Shown with
Glass Eye Shields

1/3 H.P.
Shown with
Glass Eye Shields



3/4 H.P.
Shown with
Illuminated Eye Shields

1/2 H.P. Shown with
Glass Eye Shields.
Mounted on
Grinder Pedestal



1 H.P.
Shown with
Illuminated Eye Shields

ILLUMINATED EYE SHIELD

Catalog No. 49-62-0050. (as shown above on 1 H.P. Grinder) Metal frame holds 2 pieces of 4" x 6" glass... top is safety glass... underneath, window glass... easily replaced when pitted. Double socket with two bulbs eliminates shadow. Rigid support prevents swiveling. Available for 1/2, 3/4, and 1 H.P. bench grinders only. If pair required specify 2 units. Shp. Wt. 4 lbs. each.

GLASS EYE SHIELD

Catalog No. 49-62-0060. (as shown above on 1/2 H.P. Grinder) Frame holds 3" x 5" Shatterproof glass. Mounting bracket included. Adaptable to all models. Specify 2 units if pair desired. Shp. Wt. 2 lbs. each.

GRINDER PEDESTAL

Catalog No. 49-39-0050. (as shown above) Heavy gray iron castings with tubular steel column. Removable water pot. Adaptable to all models. Height 34". Shp. Wt. 54 lbs.

Alternating Current Units

Precision built, quiet, smooth running and designed for continuous production in factories, machine and welding shops, tool rooms, maintenance departments and garages. Heavy-duty motors — alternating current only — dynamically balanced, with every safeguard against overload. Completely sealed against dirt and grit. Life-time lubricated ball bearings. Removable wheel guards permit use of buffing wheels and wire brushes.

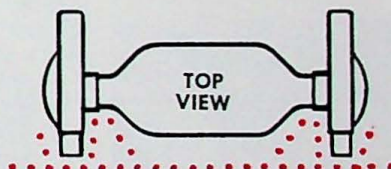
SPECIFICATIONS

Standard equipment includes two balanced, aluminum oxide wheels — one fine and one coarse grit — adjustable tool rests and spark deflectors. Eye shields and pedestal listed below are available as accessories. Wheels other than standard must be ordered separately.

HP	Catalog No.	Voltages AC 60 cycle	Phase	Speed RPM	Wheel Size	Hole Dia.	Space Between Wheels	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
1/4	4900	115	1	3440	6" x 5/8" x 1/2"	1/2"	10 5/8"	35	39
1/3	4920	115	1	3450	6" x 3/4"	1/2"	13 3/8"	39	42
	4940	230	1						
	4960	208/220/440	3						
1/2	4980	115	1	3450	7" x 1"	5/8"	14 3/4"	77	82
	5000	230	1						
	5020	208/220/440	3						
3/4	5040	115/230	1	3450	8" x 1"	5/8"	16 1/8"	83	88
	5060	208/220/440	3						
1	5080	115/230	1	1725	10" x 1"	3/4"	16 3/4"	135	140
	5100	208/220/440	3						

†Replacement wheels are 3/4"

GRINDING VERSATILITY



The areas between the inside of wheel and motor housing allow grinding on both sides of wheel. Clearance in front of motor housing is important when grinding longer pieces.

WHEELS FOR BENCH GRINDERS

Aluminum Oxide Grinding Wheels are available in coarse, medium and fine grit for all types of grinding. Wire Brushes for removing rust, scale and file marks — made of 30 ga. crimped wires of select steel. Brushes have a face width of 3/4". Cloth Buffing Wheels for buffing metal surfaces — made of multiple layers of select buffing cloth — securely sewed — can be dipped in an emery grit after coating with glue for finish grinding or rough polishing.



GRINDING WHEELS

	Catalog No.	Size (In.)	Hole Dia.
COARSE GRIT	49-92-3140	6 x 3/4	1/2
	49-92-4200	7 x 1	5/8
	49-92-5300	8 x 1	5/8
	49-92-7200	10 x 1	3/4
MEDIUM GRIT	49-92-3160	6 x 3/4	1/2
	49-92-4220	7 x 1	5/8
	49-92-5320	8 x 1	5/8
	49-92-7220	10 x 1	3/4
FINE GRIT	49-92-3180	6 x 3/4	1/2
	49-92-4240	7 x 1	5/8
	49-92-5340	8 x 1	5/8
	49-92-7240	10 x 1	3/4

CRIMPED WIRE BRUSHES

Catalog No.	Dia. (In.)	Hole Dia.
48-52-2500	6	1/2"
48-52-2600	7	5/8"
48-52-4800	10	3/4"

CLOTH BUFFING WHEELS

Catalog No.	Dia. (In.)	Hole Dia.
49-93-0080	6	1/2"
49-93-0100	7	5/8"
49-93-0110	10	3/4"

16 Gauge Capacity in Cold Rolled Steel Heavier on Trim Cuts • Cuts 17 Gauge Stainless

Greater Capacity in Non-Ferrous Metals



**CATALOG
No. 6800**

The MILWAUKEE Shear is lightweight—5¼ lbs., compact and delivers a full ¼ HP output. Engineered for best efficiency and cutting versatility. The handle is positioned for ease in cutting. Only 7" high, the light forward pressure required follows directly in line with the blade while perfect balance is maintained. Fast cutting—produces maximum output on continuous production. All ball and roller bearings. Exclusive square ram of rugged tool steel holds cutter blade in perfect alignment. With large bearing surfaces, the ram maintains proper blade clearance for accuracy and clean cuts. Heavy gauge steel deflector plate prevents curling of cut material and protects entire underside of body.

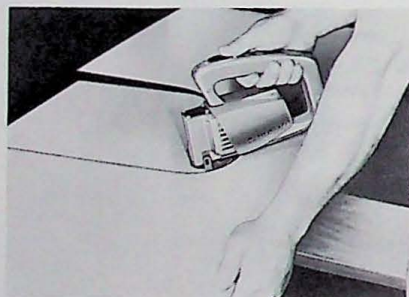
OUTSTANDING FEATURES

- High Speed, 4000 Strokes Per Minute
- Exclusive, Accurate Cutting Mechanism
- Simple, Positive Blade Adjustments
- Blade Design Eliminates Jamming
- Leaves Edges Smooth — Free of Burrs
- No Adjustments for Straight Cuts or Curves
- Cuts Close Curves Either Right or Left
- Clear, Unobstructed Visibility

SPECIFICATIONS

Capacity in Steel	16 Ga. (.0598")
Capacity in Stainless	17 Ga. (.0562")
Minimum Radius (L.H.)	½"
Minimum Radius (R.H.)	1"
Strokes per minute—No load.	4000
Net Weight	5¼ lbs.
Shipping Weight	9 lbs.

Standard Equipment includes one extra pair of cutter blades Catalog No. 48-44-0070; one set of blade adjustment feeler gauges Catalog No. 49-11-0050; and socket wrench Catalog No. 49-96-0060.



ACCESSORIES

Cutter Blades (set)	Cat. No. 48-44-0070
Feeler Gauges	Cat. No. 49-11-0050
Socket Wrench	Cat. No. 49-96-0060

Shearing blades are easily and securely adjustable between .003 and .008. Sheared metal rides smoothly over unique steel yoke providing high trim cutting efficiency.

"PITTSBURGH LOCK" HAMMER

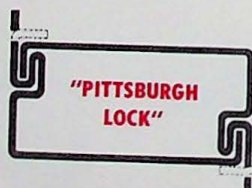
Ball and Roller Bearings

- Fast — Powerful
- Rugged — Durable



CATALOG NO. 5400

Net Weight 10 lbs.
Shipping Weight 14 lbs.



CAPACITY

30 to 22 Gauge Sheet Metal

For Sheet Metal, Heating and Air Conditioning Contractors—closes seams neatly at a rate up to 20 feet per minute. Powerful 115 volt AC-DC motor—smooth running and easy to use—weight rests on work. Position of handle affords positive control and balance—Auxiliary knob handle for two hand operation on heavy gauge metals. Guides easily along seam on straight runs or curves. Ruggedly designed for high volume, heavy-duty production use—in the shop or on the job.



Specially designed hammer mechanism of hardened tool steel. Closes seams flush and secure. Shoe guide assures proper positioning. Closing duct seams neat and quick is easy for the operator.

12 VOLT BATTERY POWERED TOOLS



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UNLIMITED 12 VOLT SOURCES • USE ANYWHERE

1/4" and 3/8" PISTOL DRILLS



CATALOG No. 0125 1/4" DRILL
CATALOG No. 0225 3/8" DRILL

Designed for 12 volt operation and continuous heavy-duty use, these two In-Line Pistol Drills deliver top horsepower at maximum efficiency. Both Drills have ball and roller bearings, heat-treated nickel alloy-steel gears, double gear reduction, hardened shafts and lockable trigger switch. The 1/4" Drill has a no load speed of 1750 RPM and the 3/8" Drill, 600 RPM. Standard equipment includes Jacobs industrial, geared, key-type chuck and rubber-flex key holder. Net weight 3 3/4 lbs. Shipping weight 6 lbs.

SHOCKPROOF

Milwaukee Battery Powered Tools can be used anywhere. Carry your power source with you, right to the spot where you're working. Generators and lengthy runs of extension cords are no longer required. The tools have 12 volt motors for use with any 12 volt AC or DC source. V-12 tools are completely shockproof and can be used in wet places . . . even when standing in water . . . no grounding is necessary. Heavy-Duty tools require a large supply of dependable electric power for continuous operation over extended periods of time. A 12 volt storage battery provides this source for reliability . . . economy . . . more usable power. The degree of battery charge is easily checked and the battery can be fully charged overnight.

12 VOLT VERSATILITY

There are three 12 volt power sources for V-12 Tools. 1. MILWAUKEE 12 volt battery and steel carrying case with a built-in outlet for instant operation. 2. Any 12 volt battery in automobiles, trucks, tractors, emergency vehicles, boats and mowers. 3. MILWAUKEE Transformer and Battery Charger converts 115 volt AC service for safe unlimited 12 volt power—also charges 12 volt batteries.

1/2" HOLE-SHOOTER



CATALOG No. 1120

This 12 volt, 1/2" D-Handle Drill is ruggedly built for heavy-duty performance and for a wide variety of applications. Triple gear reduction transmits high torque for smooth, stall-proof power. The Drill has heat-treated, helical-cut alloy steel gears, hardened shafts, lockable trigger switch and ball and roller bearings. The no load speed is 360 RPM. Standard equipment includes Jacobs industrial, geared, key-type chuck, rubber-flex key holder and adjustable side handle. Net weight 6 3/4 lbs. Shipping weight 10 lbs.

BATTERY and CARRYING CASE



BATTERY
Cat. No. 48-11-0050

CARRYING CASE
Cat. No. 48-55-0040

The 12 volt storage battery has a rated capacity of 32 amp. hours. Can be recharged over 400 times. Battery carrying case is wired with outlet for plug-in connection and is used with MILWAUKEE or any 12 volt battery up to 5 1/4" wide, 7 3/4" high and 9" long.

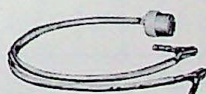
When ordering tools without the MILWAUKEE Battery carrying case, the 6 foot cord with battery clips is required. Cat. No. 48-76-0060.

CADMIUM BELT BATTERY

For use with Pistol Drills only.

For maximum portability, a 10 volt, 4 amp. hr. rated, Nickel-Cadmium Battery is available for use with MILWAUKEE 12 Volt Pistol Drills. Sealed unit clips to belt. Especially suited for high ladder or pole work. Can be recharged over 400 times. Weighs only 3 3/4 lbs. 6 1/2" high x 3" wide.

6 FT. CORD with BATTERY CLIPS



Cat. No. 48-76-0060

For connecting V-12 tools to 12 volt batteries in motor vehicles, boats, mowers, etc. Two wire—10 gauge, oil resistant, yellow flexible cord with 2 battery clips and female connection.

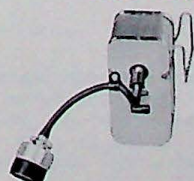
25 FT. EXTENSION CORD

Cat. No. 48-76-0050



Can be used with these MILWAUKEE accessories: battery case, cord with battery clips or direct to transformer. Two wire—10 gauge, oil resistant, yellow flexible cord with male and female connections.

BELT BATTERY and CORD



10 Volt Nickel-Cadmium Battery (less cord). Catalog No. 48-11-0060

12" Adapter Cord furnished separately. Catalog No. 48-76-0090

TRANSFORMER and BATTERY CHARGER

CATALOG NO.
48-55-0035



Converts 115V AC line voltage for Battery Powered Tools. Also recharges 12-volt batteries. Includes 6 foot cord for 115 line voltage and 2 foot 12 volt cord used between battery charger and outlet on battery carrying case. For charging other 12 volt batteries the 6 foot cord with battery clips is required.

CORDS FOR ABOVE

when ordered separately

NO. 48-76-0080 6' for 115 v.
NO. 48-76-0070 2' for 12 v.

CADMIUM BATTERY CHARGER



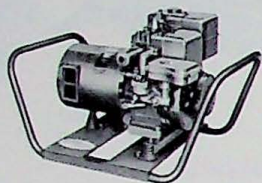
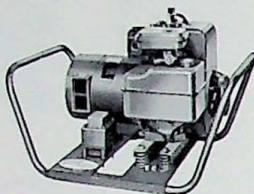
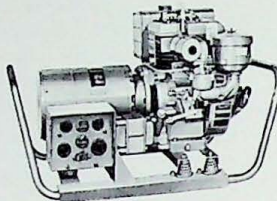
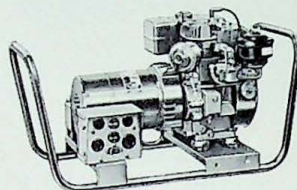
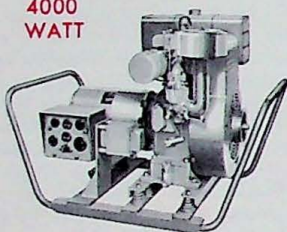
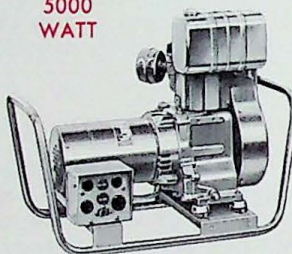
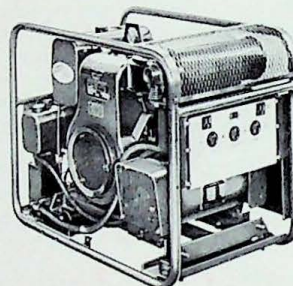
For 10 Volt Battery. 14 hour fast charge and 30 hour slow charge. Plug into 115 Volt outlet and connect to battery. Cat. No. 48-59-0050

Accessories for Battery Powered Tools, such as Right Angle Unit, Screw Driver Unit, Selfed Bits, Auger Bits, Flat Boring Bits, are the same as for 115 Volt tools listed on preceding pages.

RELIABLE, LOW COST, PORTABLE POWER

MILWAUKEE Alternators are the most dependable source of portable electric power. Advanced design revolving field alternators offer superior electrical performance with less weight, less maintenance and less cost. Full power output is obtained from stationary coils through solid connections eliminating arcing and sparking. Brushes in alternators ride on smooth slip rings and carry only low control current with practically no brush wear. Nationally recognized engines are used and local service is always available.

- ALL 3600 RPM • 60 CYCLE
- RUGGED — CONVENIENT — ECONOMICAL
- LATEST REVOLVING FIELD ALTERNATOR DESIGN
- COMPACT — LIGHT WEIGHT — HEAVY DUTY
- REACTOR CONTROL REGULATES VOLTAGE $\pm 5\%$
- SURGE CAPACITY 25% FOR MOTOR STARTING
- THERMAL OVERLOAD PROTECTION • AUTOMATIC RESET
- ENGINES HAVE STELLITE FACED EXHAUST VALVES AND VALVE SEAT INSERTS

1250 WATT**1750 WATT****2500 WATT****3000 WATT****4000 WATT****5000 WATT****7000 WATT****SPECIFICATIONS**

Catalog No.	Watts	H.P.	★ Engine 1 cyl.	Start	Fuel Tank (gal.)	Volts AC	Total Amps. Output @ 115V	Output Receptacles			Overall Dimensions in Inches			Net Wt. (lbs.)	Shp. Wt. (lbs.)
								115V 2 Pole	115V Twist Lock	230V Twist Lock	L.	W.	H.		
4370	1250	3	B & S	Recoil	3/4	115	10.8	2	—	—	26	15 1/2	14 1/2	87	100
4450	1750	4	B & S	Recoil	3/4	115	15.2	2	—	—	26	13 3/8	15 3/4	102	115
4550*	2500	6	B & S	Recoil	1	115/230	21.7	2	1	1	31 1/2	17 1/2	19 1/8	144	157
4610*	3000	7	Wis.	Rope	1	115/230	27.0	2	1	1	35	18 1/2	21	165	185
4770*	4000	9	B & S	Rope	1 1/2	115/230	34.8	2	1	1	33	19 3/4	22 1/2	215	230
4775*	5000	10	Wis.	Rope	1 1/2	115/230	43.4	2	1	1	35	20 1/2	26	248	276
4790	7000	14	Wis.	Elect.†	2 3/4	115/230	61.0	2	2	1	31 1/2	19 1/2	24 1/2	340	365

* Briggs & Stratton or Wisconsin engines with manual choke — 7000 watt has automatic choke.

• Full capacity feature — 115 volt selector switch. † Battery not included — also has rope start.

HOW TO SELECT YOUR MILWAUKEE ALTERNATOR

MILWAUKEE Alternators are built for continuous-duty operation at rated capacity. To determine which Alternator best fits your needs, total the watt ratings (volts x amps = watts) of all equipment (excluding electric motors) to be operated at the same time. The watt rating of the Alternator should at least equal this total. When operating electric motors, add the "starting watts required" shown in the chart at right to insure good starting and to reduce disturbances to other loads. When analyzing the motor loads and required starting watts, determine which loads can be staggered. In most cases, it is impractical to have an alternator large enough to handle total connected load.

Motor H.P. Rating	Approx. Running Watts	Approximate Starting Watts Required			
		Universal Motors	Repulsion Induction Motors	Capacitor Motors	Split Phase Motors
1/8	275	400	600	850	1200
1/4	400	500	850	1050	1700
1/2	450	600	975	1350	1950
3/4	600	750	1300	1800	2600
1	850	1000	1900	2600	†
1 1/2	1000	1250	2300	3000	†
2	1600	1750	3200	4200	†
3	2000	2350	3900	5100	†
4	3000	†	5200	6800	†

† Motors of higher horsepower are not generally used.

ALTERNATOR DOLLIES**FOR 1250, 1750 and 2500 WATT UNITS**

Net Weight 23 lbs., Shpg. Weight 26 lbs.
Catalog No. 48-83-0070

FOR 4000 WATT UNIT

Net Weight 25 lbs. Shpg. Weight 28 lbs.
Catalog No. 48-83-0080



Consists of tubular steel frame, moulded rubber grip handle and 10" dia. wheels with solid rubber tires.

FOR 3000 and 5000 WATT UNIT

Consists of push handle, rest and wheel assemblies. 12" dia., pneumatic, heavy-duty tires. Wheels have roller bearings. Net Wt. 28 lbs., Shpg. Wt. 32 lbs.
Catalog No. 48-83-0100

FOR 7000 WATT UNIT

Same description as above.
Net Wt. 30 lbs. Shpg. Wt. 34 lbs.
Catalog No. 48-83-0110



QUICK REFERENCE LIST

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GENUINE



REPLACEMENT PARTS

For customer convenience, MILWAUKEE provides this list of replacement parts to simplify ordering components for current models listed in this catalog. Genuine MILWAUKEE parts for these and previous models are available from your nearest Authorized Service Station, Branch or Factory as listed on the inside back cover. These parts are exact duplicates of those used in MILWAUKEE ELECTRIC TOOLS and are your

assurance of maximum tool life and trouble-free operation. A complete schematic diagram indicating all parts may be obtained by ordering the service bulletin number shown. However, major repairs should be referred to factory trained personnel. **At no time should substitute parts be used.** Always furnish catalog number and serial number of the tool when ordering parts.

● Cat. No.	Service Bulletin No.	Serial No. Start	Armature No.	Field No.	Carbon Brush No.	Cord No.	Brush Cap No.	Switch No.
0101	54-06-0203	376-7156	16-22-1270	18-22-1030	22-18-0360	22-64-0450	23-44-0020	23-66-0560
0102-1	54-06-0350	428-1001	16-22-1280	18-22-1121	22-18-0360	22-64-0660	23-44-0020	23-66-0790
0120	54-06-0403	90-42986	16-22-1120	18-22-1030	22-18-0090	22-64-0170	23-44-0020	23-66-0280
0121	54-06-0502	377-2546	16-22-1231	18-22-1121	22-18-0360	22-64-0450	23-44-0020	23-66-0510
0122-1	54-06-0650	429-1001	16-22-1231	18-22-1121	22-18-0360	22-64-0660	23-44-0020	23-66-0790
0125	54-06-0700	322-1001	16-20-1010	18-20-1000	22-18-0310	22-64-0310	23-44-0020	23-66-0280
0140	54-06-0803	91-5262	16-22-1120	18-22-1030	22-18-0090	22-64-0170	23-44-0020	23-66-0280
0160	54-06-1003	92-2177	16-22-1120	18-22-1030	22-18-0090	22-64-0170	23-44-0020	23-66-0280
0180	54-06-1203	93-6075	16-22-1120	18-22-1030	22-18-0090	22-64-0170	23-44-0020	23-66-0280
0181	54-06-1302	393-1331	16-22-1231	18-22-1121	22-18-0360	22-64-0450	23-44-0020	23-66-0510
0190	54-06-1401	304-6521	16-22-1120	18-22-1030	22-18-0090	22-64-0170	23-44-0020	23-66-0280
0191	54-06-1502	394-1336	16-22-1231	18-22-1121	22-18-0360	22-64-0450	23-44-0020	23-66-0510
0200	54-06-1603	89-7323	16-22-1110	18-22-1030	22-18-0090	22-64-0170	23-44-0020	23-66-0280
0220	54-06-2003	88-40538	16-22-1110	18-22-1030	22-18-0090	22-64-0170	23-44-0020	23-66-0280
0221	54-06-2102	378-4611	16-22-1241	18-22-1121	22-18-0360	22-64-0450	23-44-0020	23-66-0510
0222-1	54-06-2300	430-1001	16-22-1241	18-22-1121	22-18-0360	22-64-0660	23-44-0020	23-66-0790
0225	54-06-2400	316-1001	16-20-1000	18-20-1000	22-18-0310	22-64-0310	23-44-0020	23-66-0280
0562-1	54-05-0100	432-1001	16-22-1160	18-22-1060	22-18-0360	22-64-0660	23-44-0020	23-66-0795
0800	54-08-0203	10-6215	16-42-1040	18-42-1040	22-18-0100	22-64-0170	23-44-0060	23-66-0230
0850	54-08-0402	12-3593	16-42-1040	18-42-1040	22-18-0100	22-64-0170	23-44-0060	23-66-0230
0870	54-08-0603	13-8903	16-42-1040	18-42-1040	22-18-0100	22-64-0170	23-44-0060	23-66-0230
0890	54-08-0652	50-13092	16-42-1040	18-42-1040	22-18-0100	22-64-0170	23-44-0060	23-66-0230
1000	54-08-1052	17-85272	16-42-1040	18-42-1040	22-18-0100	22-64-0170	23-44-0060	23-66-0230
1000-1	54-08-1075	126-23821	16-42-1040	18-42-1141	22-18-0100	22-64-0380	23-44-0060	23-66-0485
1100	54-08-2103	14-73340	16-42-1210	18-42-1040	22-18-0100	22-64-0170	23-44-0060	23-66-0230
1100-1	54-08-2125	133-17395	16-42-1210	18-42-1141	22-18-0100	22-64-0380	23-44-0060	23-66-0485
1120	54-08-2141	306-3001	16-40-1000	18-40-1000	22-18-0280	22-64-0310	23-44-0020	23-66-0230
1200	54-08-2203	54-14985	16-42-1210	18-42-1040	22-18-0100	22-64-0170	23-44-0060	23-66-0230
1200-1	54-08-2225	134-7240	16-42-1210	18-42-1141	22-18-0100	22-64-0380	23-44-0060	23-66-0485
1600	54-10-0502	108-19380	16-62-1000	18-62-1000	22-18-0170	22-64-0170	23-44-0065	23-66-0190
1600-1	54-10-0523	109-9140	16-62-1140	18-62-1110	22-18-0170	22-64-0170	23-44-0065	23-66-0190▲
1650	54-10-2003	117-18734	16-62-1010	18-62-1000	22-18-0170	22-64-0170	23-44-0065	23-66-0190
1650-1	54-10-2024	142-8795	16-62-1150	18-62-1110	22-18-0170	22-64-0170	23-44-0065	23-66-0190▲
1675-1	54-10-4001	413-2045	16-62-1160	18-62-1120	22-18-0390	22-64-0620	23-44-0120	23-66-0750
1700	54-12-1024	62-12779	16-82-1420	18-82-1111	22-18-0115	22-64-0080	23-44-0081	23-66-0190
1700-1	54-12-1042	131-1136	16-82-1421	18-82-1111	22-18-0115	22-64-0080	23-44-0081	23-66-0190□
1750	54-12-2023	63-4350	16-82-1430	18-82-1110	22-18-0115	22-64-0080	23-44-0081	23-66-0190
1750-1	54-12-2033	130-1782	16-82-1810	18-82-1070	22-18-0115	22-64-0080	23-44-0081	23-66-0190□
1850	54-12-3021	66-4910	16-82-1430	18-82-1110	22-18-0115	22-64-0080	23-44-0081	23-66-0190

● For Drill Chucks and Chuck Keys, see page 8.

◆ Upper Brush Only. For Lower Brush, order 22-18-0290.

▲ For Reversing Toggle Switch, order 23-66-0198.

□ For Reversing Toggle Switch, order 23-66-0340.

Continued

QUICK REFERENCE LIST

GENUINE MILWAUKEE REPLACEMENT PARTS

Continued

•	Service	Serial			Carbon		Brush	
Cat.	Bulletin	No.	Armature	Field	Brush	Cord	Cap	Switch
No.	No.	Start	No.	No.	No.	No.	No.	No.
1850-1	54-12-3032	128-3012	16-82-1810	18-82-1070	22-18-0115	22-64-0080	23-44-0081	23-66-0190□
2400-1	54-12-6050	171-1001	16-82-1231	18-82-1070	22-18-0055	22-64-0070	23-44-0030	23-66-0330□
3820	54-16-2001	162-1376	16-82-1220	18-82-1070	22-18-0055	22-64-0065	23-44-0030	—
3880	54-16-2021	158-1594	16-82-1220	18-82-1070	22-18-0055	22-64-0065	23-44-0030	—
3940	54-16-2041	161-2023	16-82-1220	18-82-1070	22-18-0055	22-64-0065	23-44-0030	—
4020	54-16-2061	160-1500	16-82-1220	18-82-1070	22-18-0055	22-64-0065	23-44-0030	—
4030	54-16-3020	345-1001	16-82-1770	18-82-1070	22-18-0055	22-64-0065	23-44-0030	—
4035	54-16-3040	346-1001	16-82-1770	18-82-1070	22-18-0055	22-64-0065	23-44-0030	—
4250-1	54-14-1002	298-2304	16-42-1210	18-42-1040	22-18-0100	22-64-0060	23-44-0060	—
4260-1	54-14-2002	299-1705	16-82-1231	18-82-1070	22-18-0055	22-64-0530	23-44-0030	—
4270-1	54-14-2103	300-1491	16-82-1231	18-82-1070	22-18-0055	22-64-0530	23-44-0030	—
4280-1	54-14-3001	301-1534	16-82-1231	18-82-1070	22-18-0055	22-64-0530	23-44-0030	—
4290-1	54-14-4000	347-1001	16-82-1781	18-82-1070	22-18-0055	22-64-0530	23-44-0030	—
4295-1	54-14-4100	348-1001	16-82-1781	18-82-1070	22-18-0055	22-64-0530	23-44-0030	—
5200	54-22-2036	74-2310	16-82-1660	18-82-1110	22-18-0260	22-64-0090	23-44-0065	23-66-0250
5220	54-22-3105	75-2052	16-82-1450	18-82-1110	22-18-0260	22-64-0090	23-44-0065	23-66-0250
5240	54-22-4105	76-2626	16-82-1450	18-82-1110	22-18-0260	22-64-0090	23-44-0065	23-66-0250
5300	54-24-3506	342-21060	16-62-1130	18-62-1100	22-18-0330	22-64-0410	23-44-0100	23-66-0490
5350	54-24-3004	389-9885	16-42-1360	18-42-1200	22-18-0100	22-64-0180	23-44-0060	23-66-0580
5360	54-24-2021	38-3100	16-42-1170	18-42-1040	22-18-0100	22-64-0170	23-44-0060	23-66-0230
5390	54-24-1502	422-10481	16-22-1290	18-22-1160	22-18-0410	22-64-0450	23-44-0060	23-66-0510
5400	54-24-7005	107-9775	16-22-1000	18-22-1030	22-18-0090	22-64-0200	23-44-0020	23-66-0160
5450	54-32-1007	100-9601	16-62-1030	18-62-1030	22-18-0170	22-64-0090	23-44-0065	23-66-0270
5530	54-32-1103	140-4028	16-62-1035	18-62-1035	22-18-0175	22-64-0090	23-44-0100	23-66-0270
5590	54-32-1216	47-7506	16-82-1180	18-82-1110	22-18-0260	22-64-0090	23-44-0065	23-66-0250
6000	54-38-1002	285-4288	16-42-1310	18-42-1130	22-18-0090	22-64-0220	23-44-0060	23-66-0380
6020	54-38-2017	49-41937	16-82-1710	18-82-1180	22-18-0260	22-64-0090	23-44-0065	23-66-0250
6060	54-38-3107	48-71961	16-82-1710	18-82-1180	22-18-0260	22-64-0090	23-44-0065	23-66-0250
6200	54-40-2501	151-2453	16-82-1280	18-82-1040	22-18-0055	22-64-0090	23-44-0030	23-66-0300
6250	54-40-3002	281-12225	16-22-1190	18-22-1090	22-18-0270	22-64-0220	23-44-0020	23-66-0310
6280	54-40-3102	334-1845	16-22-1190	18-22-1090	22-18-0270	22-64-0220	23-44-0020	23-66-0310
6293	54-40-1814	309-6160	16-62-1050	18-62-1050	22-18-0300	22-64-0340	—	23-66-0430
6320	54-40-1502	176-6394	16-82-1290	18-82-1085	22-18-0095	22-64-0080	23-44-0050	23-66-0500
6331	54-40-1842	349-7670	16-62-1100	18-62-1050	22-18-0300	22-64-0340	—	23-66-0430
6360	54-40-1512	177-8633	16-82-1300	18-82-1085	22-18-0095	22-64-0080	23-44-0050	23-66-0500
6370	54-40-2003	368-6101	16-82-1801	18-82-1201	22-18-0095	22-64-0430	23-44-0050	23-66-0500
6400	54-40-1522	178-8327	16-82-1310	18-82-1085	22-18-0095	22-64-0080	23-44-0050	23-66-0500
6505 *	54-40-4101	335-2456	16-42-1340	18-42-1180	22-18-0100	22-64-0170	23-44-0060	23-66-0230
6510 *	54-40-4203	284-73587	16-42-1170	18-42-1120	22-18-0100	22-64-0380	23-44-0060	23-66-0480
6541-1	54-42-0602	388-1736	16-22-1241	18-22-1121	22-18-0360	22-64-0660	23-44-0020	23-66-0810
6542-1	54-42-0650	433-1001	16-22-1241	18-22-1121	22-18-0360	22-64-0660	23-44-0020	23-66-0790
6571-1	54-42-0952	426-1263	16-22-1231	18-22-1121	22-18-0360	22-64-0660	23-44-0020	23-66-0810
6581-1	54-42-2102	382-2196	16-22-1241	18-22-1121	22-18-0360	22-64-0660	23-44-0020	23-66-0810
6582-1	54-42-2150	434-1001	16-22-1241	18-22-1121	22-18-0360	22-64-0660	23-44-0020	23-66-0790
6620-1	54-42-4052	135-1285	16-42-1210	18-42-1141	22-18-0100	22-64-0380	23-44-0060	23-66-0485
6640-1	54-42-4253	123-1586	16-42-1210	18-42-1141	22-18-0100	22-64-0380	23-44-0060	23-66-0485
6746-1	54-42-5102	381-8013	16-22-1231	18-22-1121	22-18-0360	22-64-0660	23-44-0020	23-66-0810
6781-1	54-42-5202	399-4203	16-22-1251	18-22-1151	22-18-0360	22-64-0660	23-44-0020	23-66-0810
6796-1	54-42-5454	392-5070	16-22-1260	18-22-1160	22-18-0360	22-64-0660	23-44-0020	23-66-0810
6800	54-44-0100	220-1001	16-22-1106	18-22-1024	22-18-0090	22-64-0220	23-44-0060	23-66-0310
9050	54-26-1200	385-1001	16-42-1350	18-42-1190	22-18-0380	22-64-0470	23-44-0110	23-66-0570

• For Drill Chucks and Chuck Keys, see page 8.

□ For Reversing Toggle Switch, order 23-66-0340.

* For Sawzall Blade Clamp, order 42-68-0073 --- Blade Clamp Screw, 06-75-2400 --- Socket Wrench, 49-96-0070.



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A nation-wide network of Factory Branches and Authorized Service Stations has been established to assure prompt, efficient service. These organizations, staffed with factory trained service personnel, are your source for service or MILWAUKEE ELECTRIC TOOL warranty repairs. They carry an adequate stock to supply genuine replacement parts.

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Upper Darby, Pa. 19082
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Phila 215 528-6771

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So. San Francisco, Cal. 94080
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S.F. 415 761-2851

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Seattle, Washington 98108
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P.O. Box 2191
Fairbanks, Alaska 99701

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Glenn's Armature Service
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Phoenix, Arizona 85014
Electric Motor Company
1028 E. Broadway
Tucson, Arizona 85719

ARKANSAS

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Little Rock, Arkansas 72209

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Fresno, California 93703
Sacramento Industrial Electric Co.
6313 Elvos
Sacramento, California 95819

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Portable Power Tool Repair Co.
447 Arch Street, Rear
New Britain, Connecticut 06051

FLORIDA

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Jacksonville, Florida 32206
T & A Power Tools, Inc.
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Miami, Florida 33168
Orlando Armature Wks. Inc.
600 W. Central Boulevard
Orlando, Florida 32802
Electrical Repair Co.
1228 East Cass Street
Tampa, Florida 33602

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Central Service & Sales, Inc.
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IDAHO

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Boise, Idaho 83704

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1001 North Illinois
Indianapolis, Indiana 46204

IOWA

Jim's Appliance Service
901 Ninth St., S.W.
Cedar Rapids, Iowa 52404
Five Cities Tool Service, Inc.
730 W. Third Street
Davenport, Iowa 52802
Electrical Engineering & Equip. Co.
1808 Delaware Street
Des Moines, Iowa 50317

KANSAS

Mears Electric Co., Inc.
625 No. Washington
Wichita, Kansas 67202

KENTUCKY

City Electric Motor Shop
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Lexington, Kentucky 40508
Electric Tool Service Corp.
757 Logan Street
Louisville, Kentucky 40204

LOUISIANA

Beerman Precision Machine Wks., Inc.
2021 Thalia Street—P.O. Box 53432
New Orleans, Louisiana 70150

MARYLAND

Roland Electrical Company
330 West 23rd Street
Baltimore, Maryland 21211
Turner Electric Company
201 Ethan Allen Avenue
Takoma Park, Maryland 20012

MISSISSIPPI

Flannigan Electric Co. Inc.
328 Oakdale Street
Jackson, Mississippi 39204

MISSOURI

Heath Sales & Services, Inc.
518-20 East 16th Street
Kansas City, Missouri 64108
Zeller Electric Co., Inc.
4250 Hoffmeister Street
St. Louis, Missouri 63125

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Mosch Electric Motors
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Great Falls, Montana 59401
General Appliance Company
2045 Grand Avenue
Billings, Montana 59102

NEBRASKA

Thacker Electric Company
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Omaha, Nebraska 68102

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Las Vegas, Nevada 89102

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Albuquerque, New Mexico 87105

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Berger Electric Corp.
395 State Street
Rochester, New York 14608
Barrett Electric Service, Inc.
112 Henry Street
Schenectady, New York 12304
Ramsey Electric Service Co.
125 Charles Avenue (Syracuse)
Solvay, New York 13209

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Charlotte, North Carolina 28202

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Columbus, Ohio 43224
M & R Electric Motor Service, Inc.
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Dayton, Ohio 45403
Girkins Electric Co.
2056 Canton Avenue
Toledo, Ohio 43620

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Oklahoma City, Oklahoma 73105
Hammond Electric Co.
1510 East Third Street
Tulsa, Oklahoma 74120

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Eugene, Oregon 97401
Walker Electric Works
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Portland, Oregon 97209

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Pittsburgh, Pennsylvania 15233

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Memphis, Tennessee 38126
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Houston, Texas 77003
Blain Electric Company
3702 San Pedro
San Antonio, Texas 78212

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Diamond Electric Motor Service
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Salt Lake City, Utah 84115

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Norfolk, Virginia 23504
Roy's Electric Motor Service, Inc.
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Richmond, Virginia 23230

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K & N Electric Motors, Inc.
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Spokane, Washington 99210
Cooper Electric Motor Service Co.
205 South 4th Avenue
Yakima, Washington 98902

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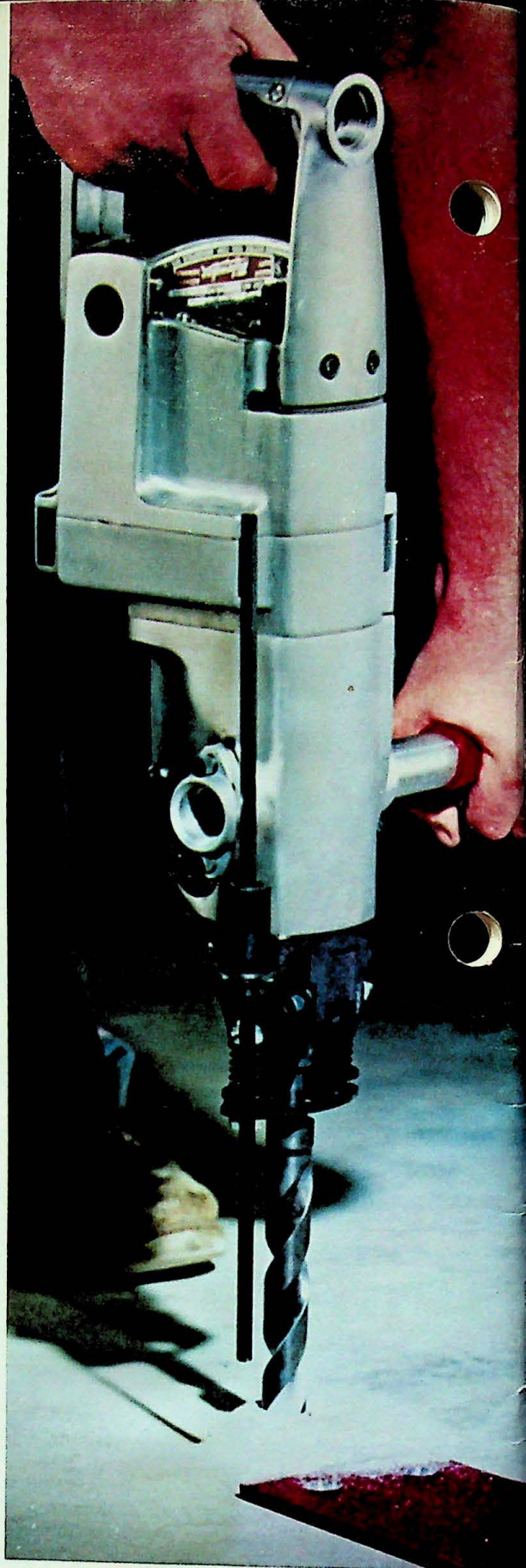
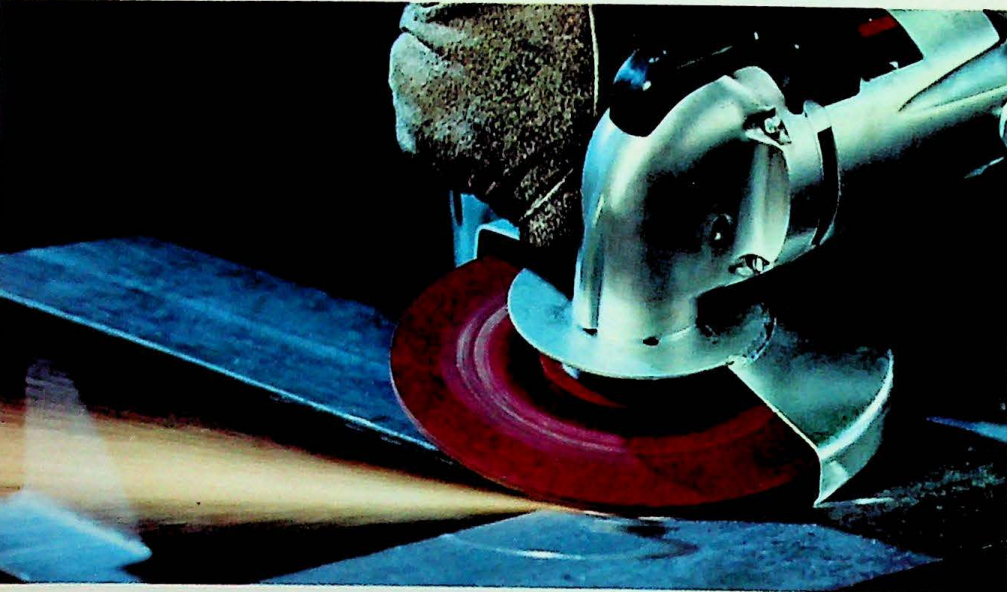
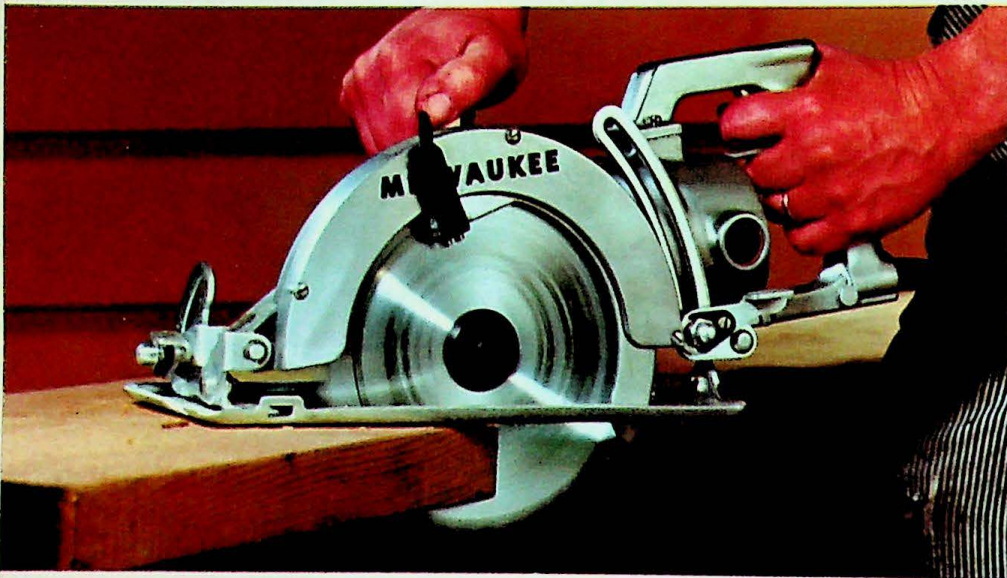
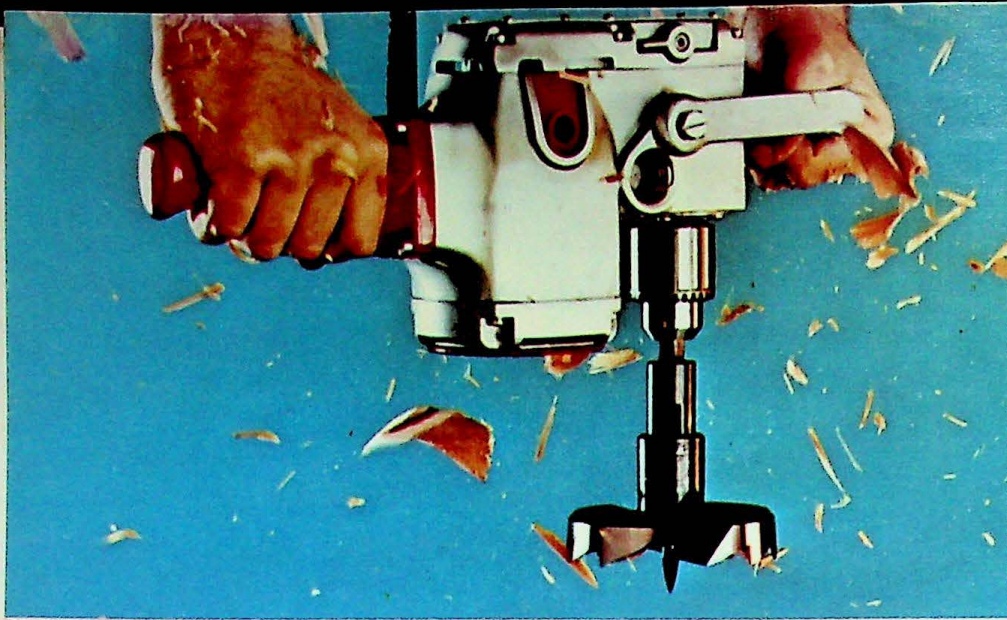
Ketter Electric Company
103 Clendenin Street
Charleston, West Virginia 25301

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13135 W. Lisbon Road, Brookfield, Wisconsin 53005 • Phone: Area Code 414 781-3600

CANADIAN SUBSIDIARY

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